WEBCON BPS 2023 R2

history of changes for version 2023.1.2.123

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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.

2. Changes to existing features

2.1. Visibility of applications/processes when creating and editing substitutions

The rules for applications and processes that a user can specify when creating a substitution for themselves or another user have been changed. The update applies to both **Task delegation substitutions** and **Working on behalf of substituted person with full access.**

The list of applications and processes for which a substitution can be created varies for users with different privilege levels. The updated rules are as follows:

- If a user creates a substitution for themselves (using the New substitution for me option), they can select the processes where the substitution will be active based on the application privileges. This means that all processes within the application will be available for selection, provided that substitutions are enabled in the process configuration and the user has any application privileges. Process privileges for that user are not taken into account. The list of applications/processes is not limited by business entities.
- If a Superior creates a substitution for subordinates (following the subordinate structure configuration), then, as previously explained, they can select processes from all applications for which the subordinate, i.e., the replaced person, has any privileges. The list of applications/processes is not limited by business entities.
- If a System administrator or a user who is authorized to create substitutions for anyone creates a substitution for another person (using the Specified users for anyone option in the substitution configuration), they can select any processes with enabled substitutions among all applications. The administrator can also select any process with enabled substitutions when creating a substitution for themselves.

The same rules apply when editing an existing substitution.

The list of applications and processes available for creating or editing a substitution is updated each time the **Replaced person** is changed.



| Substitutio | ns | | |
|---------------------|--|---------------|---------|
| | | Save ᆒ Delete | X Close |
| Replaced person:* | Tom Hanks | × | |
| Substitute:* | Tom Green | × | |
| Start date:* | 11/8/2023 | 21 | |
| End date:* | 11/10/2023 | 21 | |
| Substitution type: | Working on behalf of substituted person with full access | | |
| In business entity: | <all></all> | ~ | |
| In application: | <selected></selected> | ~ | |
| | | 07 Edit | |
| ACTIVE | | ^ | |
| Audits & Cont | trols | ^ | |
| 🗸 Internal a | udit | | |
| Billing Service | s | ^ | |
| Employee | Expenses | | |

2.2. Service

• Added the possibility to add the previously unavailable service roles when configuring WEBCON BPS installation in Docker and in the case of running locally the service directly from the .exe file. In addition, modified the system behavior in the situation where the service with the **Basic features** role assigned has not communicated with content database for over 45 s. Now, in such case this role is taken over by other service if it has been selected in its configuration.

3. Security fixes

3.1. Updated components

- The following components have been updated:
 - Azure.Identity to version 1.10.3,
 - Azure.Core to version 1.35.0
 - due to a vulnerability patch:

CVE-2023-36414, CWE-94 – https://security.snyk.io/vuln/SNYK-DOTNET-AZUREIDENTITY-6009155.



4. Bug fixes

4.1. General

 Fixed a bug that prevented searching the WEBCON BPS Help page in Polish for phrases containing "ń".

4.2. Portal

- Improved the display of the **Multiple lines of text** column with **Append mode** enabled in the report when the **Do not wrap** option is selected. After the change, the column values do not overlap.
- Fixed an issue that occurred when adding attachments for a group of languages (such as Swedish, Finnish, Croatian, Norwegian, Lithuanian) where the default negative sign was minus (U+2212) instead of the standard hyphen-minus (U+002D).

4.3. Form

- Fixed an error that occurred when deleting an **Item list** row that was a **Choice field** (**Popup search window**). In case of an Item list with multiple rows of this type, an attempt to delete one of them resulted in unnecessary validation of other rows' values.
- Fixed an error that occurred when the value of the **Multiple lines of text** form field in Rich Text formatting mode was checked by a regular expression (regex).
- Fixed a bug that prevented switching between **Data table** pages with the arrows after refreshing the data in this form field.
- Increased the maximum value of a workflow instance version when assigning a task to users.
- Fixed a bug that prevented the correct display of the instance **History**. The bug occurred when the instance had an **Item list** whose number of rows changed between workflow steps.
- Fixed an issue that occurred when adding new rows to an **Item list** with grouping active.
- Fixed missing translations in the **Tab panel**.

4.4. Designer Studio

• It is now possible to change the order of the **Active** column in a report based on data from a **Dictionary process** and after specifying a certain **Form type** in the report configuration.

- Fixed an error that occurred when defining an **Insert condition (SQL)** for an action executed **On timeout**. After the change, the tag in the SQL expression is correctly replaced with the BPS object/label (tag name + its variant).
- Fixed a bug that caused the **Connection** description to be replaced with the Connection name each time it was edited. After the change, the Description and Name fields behave independently.
- Improved communication between WEBCON BPS Portal and WEBCON BPS Designer Studio by including the PortalRunningAddress parameter in HTTP methods.
- Fixed a bug where tags available under **Collection columns** were not correctly replaced with the corresponding values in a cyclic action configured with the **For each** operator.
- Fixed a error that prevented tags from being replaced with corresponding form field values in the **Send custom email** action template after importing an application from another environment and when the form field ID was negative. The same error occurred when this action was embedded in **Global automation**.

4.5. Actions

- Fixed an issue that blocked **Automations** from being added on entry to a step. Improved the mechanism that checks if an Automation was already configured for the given trigger.
- Fixed an issue with the **Generate an Excel file** action not using the correct template.
- Fixed a bug that, despite granting appropriate privileges to the **BPS group**, blocked the ability of members of that group to edit a file placed on OneDrive with the **Start editing a file using OneDrive** action.
- Unified the operation of the Change value of single field and Change values of multiple fields with respect to empty entries. After the change, it will be possible to clear the field values using both actions.
- Fixed a bug where the **Hyperlink** action prevented an instance from being edited (due to lack of privileges).
- Fixed a bug that caused the **Invoke SOAP Web service** action to set the form field value to "0" instead of the configured empty value.

4.6. Rules

• Fixed a bug that prevented the execution of a rule created based on na **SQL Command** when Turkish was selected as the language in Portal.

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• Fixed an error that caused the **SELECT VALUES** function defined in the rule to retrieve values from the last row of the **Item list** instead of the specified row. The error occurred when the above rule was used in the configuration of the **Change value of single field** action, followed by the **For each** operator in the automation.

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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.
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2. Changes to existing features

2.1. Actions

• Enhanced the WSDL verification when configuring **SOAP** data sources and the **Invoke SOAP Web service** action. When the WSDL definition contains complex type table that is unsupported by the system, a warning message is displayed and the definition of such a table is not loaded.



3. Security fixes

3.1. Updated components

• SkiaSharp component was updated to version 2.88.6 due to the following vulnerability: https://security.snyk.io/vuln/SNYK-DOTNET-SKIASHARP-5922114

4. Bug fixes

4.1. Portal

• Fixed a bug that prevented saving changes to the **BPS Group** configuration in the **Admin panel**.

The issue arose when an inactive user (either deleted or deactivated in AD or AAD) was one of the group members.

To rectify the issue, a validation of BPS Group members was included when editing the group. Whenever a user, who's a BPS Group member, is inactive, a message displays indicating to remove them from the group before saving changes.

- Improved dynamic paging in **Reports** and **Searching structures**.
- Fixed an issue with the configuration of start buttons on **Reports**. The error allowed creating buttons with incomplete configuration the validity of buttons will now be checked.
- Fixed incorrect display of **Legends** after cloning a **Chart** report view and placing it with the original view on the **Dashboard**.
- Fixed errors caused by date formatting after setting Portal to Danish language.
- Fixed a bug that prevented the diagnostic session report from being saved.
- The **SearchIndex source** option can no longer be selected for **Document templates** Reports.
- Fixed a bug that produced messages in different languages in the authentication window that enables access to a shared instance. As a result, the messages confirming user identity were shown in the language consistent with the Internet browser settings, while the messages informing about blocked access were displayed in the language configured in Portal. Currently, the message language has been unified to align with the browser language settings in both cases.
- Changed the message informing the user that they do not have permissions to display a **List of substitutions**.
- Corrected the URL redirecting to the login error page.
- Fixed a bug that prevented **Tenant ID** from being edited in the **Azure AD** Synchronization node of the **Admin Panel** for WEBCONAPPS-SaaS installations.

4.2. Form

• Improved loading of a file preview in OCR verification mode when working on behalf of another user.

- Fixed an issue with sorting dates and numbers in the Data table form field.
- Fixed a bug that caused the hour value in the **Date and time** form field to be reset by 1 hour when saving the form. The error occurred in the Mozilla Firefox browser when the time zone set was (UTC+02:00) Helsinki, Kiev, Riga, Sofia, Tallinn, Vilnius.
- Standardized the way the Choice field target values are set on the form in OCR verification mode. Previously, when that form field was configured to allow multiple values to be selected, the new value was added to the previous one now it overwrites it.
- Fixed an issue that prevented attachments from being deleted if their name contained an ampersand (&).
 This was caused by & being a special character in XML.
 The fix changes all & characters into their XML counterpart, & amp;
- Fixed a bug that prevented the correct validation of form fields in case of their large number on the form, which was supported by the message "Error during saga execution".
- Fixed an error that prevented the user from choosing their business entity on the form.
- Fixed a bug that caused form fields related to a Choice field (in Autocomplete mode) to be automatically populated with incorrect values from the Data source. This was the case despite setting Allow adding values not in data source for the Choice field and attempting to populate it with new values.
- Fixed an error that occurred when changing the order of **Form fields** on the form. This fix will clear up duplicate field ordinal numbers, therefore the order of existing fields may change.

4.3. Designer Studio

- Fixed a crash caused by duplicates in the TranslateLanguages table. Added a mechanism that prevents future duplicates.
- Fixed an error that occurred when trying to switch from the last to the first step of a workflow in the step preview (**Next step** button).
- Fixed a bug that was preventing the display of an error message when clicking the **Create universal rule** button while attempting to create a universal rule that refers to an **Item list** column.
- Fixed a bug that caused instances imported with the **Dictionary process** to be assigned to the wrong business entity.

4.4. Actions

- Improved the way that privileges are granted to edit/read files on OneDrive. Only properly authorized users will now be able to edit such files.
- Fixed a bug in the **Add a text layer** action where the value specified in the **Number of initial pages** field was ignored and a text layer was created for the entire document.
- If the **Overwrite value** box is checked in the configuration of the **Update related workflow instance** action, executing the action results in removing form fields with empty values from the related workflow instance.
- Blocked ability to select a file to edit for the action Start editing a file using OneDrive configured On attachment add. The action will be executed in the context of the attachment for which it was triggered.
- Fixed a bug that occurred when transferring attachments from the parent workflow using the **Add attachment** action.
- Fixed a bug where executing the **Generate an Excel file** action from a template resulted in the creation of a file whose configured name was replaced with a default one.

4.5. Rules

• Fixed an issue with the **SET ROW VALUE** function executed on value change. If the changed value was used within the function, the old value was loaded instead.

4.6. Data sources

• Improved handling of non-integer numbers (e.g. tinyint, smallint) and non-decimal floating-point numbers in data sources.

4.7. Designer Desk

• Fixed a bug that prevented the action description entered in the **Properties** window from being saved after closing the window.

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1. Before upgrading WEBCON BPS

1.1. Important information

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2. New features

2.1. General

• Added an index for the **Calendars** table, which should noticeably increase query speed.



3. Bug fixes

3.1. General

• 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.

3.2. Portal

- 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 with displaying substitution tasks in the **My tasks** view. Tasks would be shown in the task list, but would not appear in search results.
- Fixed an issue with values in **Choice field** and **Choice tree** form fields not appearing in the **Mass actions** window on **Reports**.
- The sensitive data that were previously displayed when Portal started and in the associated logs are now hidden.
- Improved the order of loading configuration for the **Portal** container. Fixed a situation where environment variables would not be taken into account.
- Improved readability of values in pie and donut chart **Report views**. The tooltip that appears when the cursor is hovered over a value in a chart now includes both the chart series name and the label name.
- Fixed an issue with displaying **Stacked** charts on **Reports**.

3.3. Form

- Improved the operation of **Query data source if variables return empty values** option available when configuring a **Choice field**.
- Fixed an error of the **MAX** and **MIN** functions where numbers greater than 1000 were treated as dates.
- Fixed a timeout error that occurred when removing workflow instances at the form level. Additionally, an associated bug has been fixed that either prevented instance archiving or extended its processing time considerably.
- Fixed an issue with importing data from Excel to an **Item list**. If the source sheet contains accounting formatting, only the number itself will be imported.

• Improved the refreshing of values in **Item list** columns that use a data source. Filters defined on these data sources that make use of other values entered on the form will correctly filter available values.

3.4. Designer Studio

- Fixed an error that occurred during application export when the process included a form field whose value was checked by a regular expression (regex) containing curly braces "{ }".
- Fixed a bug that prevented the preview of an email template when the **SELECT VALUES** function had been inserted into it.
- Fixed mechanism responsible for resetting the counter of incorrect executions after activating the disabled cycle of cyclical actions in WEBCON BPS Studio.
- Fixed a bug that occurred after pressing the **Show** button in the SQL query editor.
- Fixed a bug that occurred when importing an application with form rules containing regular expressions (regex) with values in curly brackets "{ }". When the application was imported, the values in the brackets were replaced with "0".
- Fixed a bug that caused duplicate automation IDs when generating process documentation.
- Fixed an issue that prevented **Mass notifications** from being sent if they had **Use custom send rules for user notifications** enabled. The error occurred when using "Date of task creation" and "Date of task modification" properties.

3.5. Actions

- Fixed a bug that prevented the parent workflow ID from being correctly set using the **Change value of single field** action.
- Aligned the operation of the Add a substitution action configured in Basic and SQL query modes – in both cases, if the specified Substitution start date is < today, this date will automatically be replaced with the current date.
- The configuration of **Invoke SOAP Web service** actions will now display parameters that are an enum within a table of complex types. Additionally, unsupported parameter types (i.e. table of tables or complex types within a table of complex types) will be shown in the configuration if they have configured mapping.

3.6. Data sources

• Fixed a bug that occurred while updating database during migration from the version 2022.1.4.111 to 2023.1.2.44 and produced the error "Undefined migration class error. (The given key was not present in the dictionary.)".

• Fixed a bug that occurred when trying to reference **Dictionary processes** where form field names contained the characters ":", "}", "{", so that they could not be converted correctly to XML. This has been fixed by replacing these characters with the tilde "~".

3.7. Service

• Fixed a bug in the DocumentManager class constructor which can be employed by the cyclical **Run an SDK action** actions. The bug produced an exception when constructing an object.

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1. Before upgrading WEBCON BPS

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- 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:

| Configuration - Update related workflow instance | □ X |
|---|---|
| Basic GAdvanced | Enter text to search |
| Check current user's privileges to edit related workfow instance Force undoing user checkoud Overwrite user editing instance Editing user: Additional CC tasks assignment Users: | Name System fields Form fields Global constants Process constants Context variables Global business rules Process business rules Object identifiers Automation parameters Automation context variables Hyperlinks |
| [₃ | Save Save Cancel |

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.

| X Configura | tion | × |
|-------------|----------------|--------|
| ☑ Set thous | ands separator | |
| | « ОК | Cancel |

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.



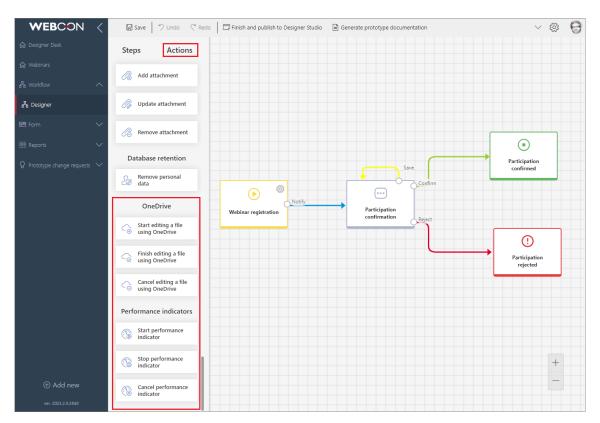
| Number of decimal places: | | 2 🌲 | Enter text to search | |
|---|------|----------|---------------------------------------|--|
| ✓ Use thousands separa Display format: | Auto | . | Name System fields Form fields | |
| Prefix: | | | Global constants Process constants | |
| | | | | |
| | | | | |
| | | | Switch into advanced edit mode | |

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

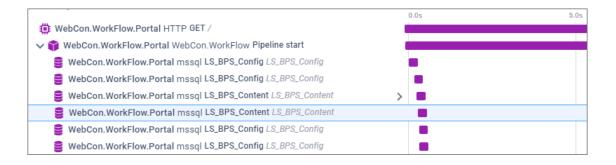
Start editing a file using OneDrive Cancel editing a file using OneDrive Finish editing a file using OneDrive

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.

| WEBCON | < | Invoices - Application | | | | Search everywhere | ٩ | 🛃 🛧 📭 😽 |
|-------------|--------|-------------------------------|---------------------|------------------|-----------------|------------------------|-----------------|-----------------------|
| | | Key application indicators | | | | | | |
| | ۲ | In time | | | | | | All applications 🔻 |
| | 33 | 1 | | | | | | |
| | \sim | INVOICES - APPLICATION - | 6 9 | E) 20 | ⊘ 49 | 59 | <u>е</u> | () 1 day 17 hours |
| | \sim | | Number of instances | Active instances | Ended instances | Number of active tasks | People involved | Average task duration |
| | \sim | Change Request Process 🕨 | 27 | 11 | 16 | 24 | 2 | 1 hour 31 min. |
| | ^ | | | | | | | |
| G Analytics | ^ | Contractors > | 8 | 8 | 0 | 0 | 1 | no data |
| 舖 Overview | | | 19 | 1 | 18 | 7 | 2 | 12 sec. |
| a Heatmap | | Counterparty data - Process 🕨 | | • | | _ | | • |
| | | Invoice Process 🕨 | 15 | 0 | 15 | 28 | 1 | 4 days 14 hours |
| | | | | | | | | |
| | \sim | | | | | | | |
| | \sim | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | Data from: 7/26/2023 |

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.

| Template | Appearance | | fx a Values ## [#] |
|---------------------|---------------------------------|-----|---|
| age orientation: | Vertical | * | Enter text to search |
| Allow cutting off i | mages between pages | | Name |
| Show header | | | ⇒ System fields ⇒ Form fields |
| Height: | 50 | | Global constants |
| Html: | | - e | Process constants |
| | | | Context variables Automation context variables |
| | | | Performance indicators |
| ✓ Show footer | Left: 50 \$ Bottom: 50 \$ | | STREE STREEMENT STREEMENT STREEMENTS STREEMENT |
| Height: | 50 | | |
| Html: | | | |
| | Include page number in footer | | Switch all editors into advanced edit mode |



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

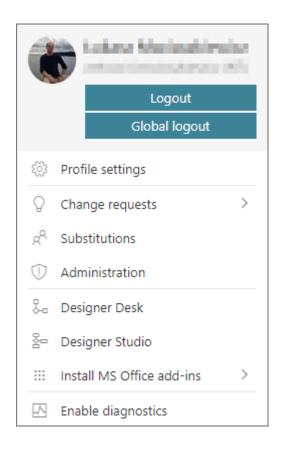
The same checkbox has been added in the **Output** tab of the **Convert Word to PDF** action window. When this option is selected, the files created as a result of the conversion will be saved in **PDF/A** format.

| Template | Dutput | | | ∫x (a) Values ∷≣ [⊟] |
|---------------------------------|----------------------------------|--------|----------|---|
| PDF/A file | | | | Enter text to search |
| File name: File description: | Source file name | * * | • | Name System fields Form fields Global constants Process constants Context variables Automation context variables Attachment details Performance indicators |
| Category: Dynamic: | The same category as source file | • | ⊡ | Switch all editors into advanced edit mode |



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** \rightarrow **Security** \rightarrow 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.

| () ¹ ¹ | WEBCON Business Process Suite - Desig | gner : | Studio × |
|--|---|---------|--|
| Tasks Appearance | | | الله المراجع ا |
| System settings | System settings (Security) | | |
| ⊙ Bobal fields Q Licenses allocation | 📇 Save | | |
| (3) (8) Global parameters (3) Appearance 2 Global privileges | Trusted domains: *,*,webcon.pl,https://*.office365.com,http | | WEBCON BPS Portal logout behaviour: |
| Change Requests Designer Desk Permissions | Custom response headers | | Tokens and cookies lifetime configuration: |
| Attachments Database Security | | | System defaults WEBCON BPS Portal cookies configuration: |
| Active Directory Actions Config | | Θ | Cookie expire time: 14.00:00:00 v |
| | | (j) | System applications tokens configuration (Designer Studio, Mobile Apps, AddIns): |
| Cache | | | Access token expire time: 00.01:00:00 * Refresh token expire time: 26.00:00:00 * |
| Applications | CSRF protection | | Security codes configuration for sharing workflow instances publicly: |
| Data sources | | | User identity verification 00.01:00:00 * |
| System settings | | ⊖ () | |
| Plugin packages | | | |
| Reports | | | |
| Loaded https://t | dev18.webcon.pl/WEBCONBPS Database=JJ_BPS_Content_Main; DBVersion | n=Main | Version: 2023.3.0.2689 |

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 \rightarrow the **GlobalParameters** table \rightarrow the UsePublicDocumentation parameter). The content of the documentation has been updated and reformatted).

| WEBCON Documentation | Next | t → XA English → Q Search ctrl K |
|-----------------------------------|--------|---|
| Introduction Getting started | | ★ > Designer Studio Version: Next |
| Designer Studio | \sim | Designer Studio |
| License management | > | |
| Main menu | | WEBCON BPS Designer Studio is your command center for all |
| Designer Studio Toolbar | | features of WEBCON BPS. |
| Applications > | | The Applications section is used to build entire business |
| Processes | > | applications, including: |
| Workflows | > | • Workflows – plan steps, task assignment, business rules , |
| Actions | > | triggered [actions](/en/docs/Studio/Action/, timeout |
| Importing and Exporting processes | > | actions, cyclical actions. Instant change technology will allow you to make changes to ongoing workflows. Existing |
| Automations | | workflow instances will use the updated workflow and |
| Business rules | > | form definitions as soon as you save them in Designer Studio. |



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.

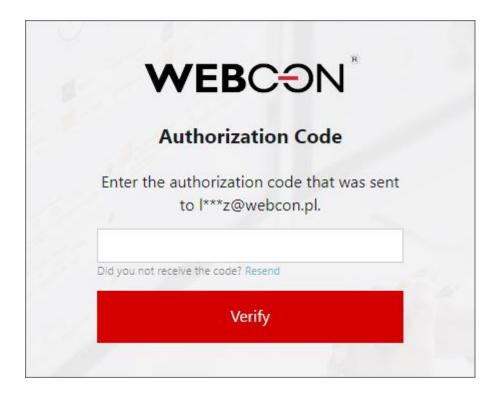
Enabling the functionality in Designer Studio

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.

| Public access Enable task and instance sharing for people outside the organization | | | | | | |
|--|-----------------|---|--|--|--|--|
| Require identity verification (security code sent via email) | | | | | | |
| Privileges level: Edit | | | | | | |
| - | | | | | | |
| Default sharing expiration | time (in days): | | | | | |
| 30 | | 9 | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

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 <u>single-use</u> 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 \rightarrow Global parameters \rightarrow 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.

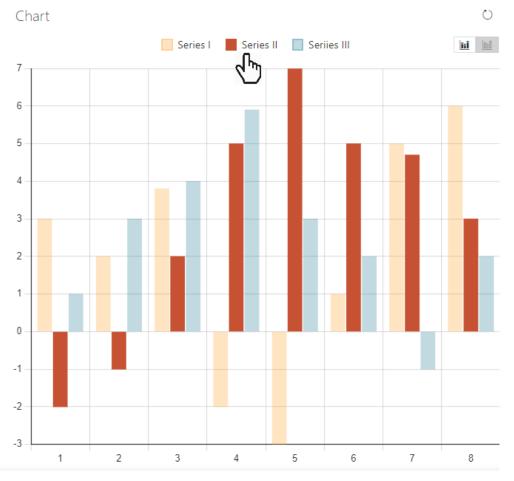
| Active sha | res | | | | | | | | |
|----------------------|------------------------------|--|-----------|------------|------------|------------|----------------------|-------|----------|
| 🖔 Refresh | | | | | | | | 2 | 7 Filter |
| ↑ Workflow instance | Process | Shared to | Shared by | Privileges | Protection | Start date | End date | Actio | ons |
| AGREE/2023/03/00001 | Agre emen t | | e | Edit | | 7/10/2023 | 8/9/2023 5:17 PM | Ø | Û |
| HELPF1/2023/08/00001 | Help F1 (pr oces s) | | • | Edit | Q, | 8/9/2023 | 9/8/2023 9:58 AM | Ø | ۱ ۱ |
| HELPF1/2023/08/00003 | Help F1 (pr oces s) | ides recipi screen screen screen screen | • | Edit | \otimes | 8/9/2023 | 9/8/2023 10:10 AM | A | ١ |

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.
- It is now possible to define an email address to which responses obtained through the commands available in the **MailApproval** functionality can be

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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.

5.13. Actions

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

| Indicator: | (?) <choose></choose> | • |
|-----------------|-----------------------------|------|
| Operating mode: | Cancel last start execution | - (i |
| | Cancel last start execution | |
| | Cancel all executions | |

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. 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"/"EALSE" values) of the second s

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 **abld** and **appld** 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.

WEBCON BPS 2023 R1

history of changes for version 2023.1.1.89

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1. Before upgrading WEBCON BPS

1.1. Important information

- 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.
- 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. Information

2.1. Actions

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

3. Changes to existing features

3.1. Form

• All data of the archived instance will be visible in **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.

3.2. 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

do not have an active account in the system.

3.3. Add-In

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

3.4. Service

 Change the order of calculating OLAP statistics in the basic service role. Analitycs added in version 2023 will be calculated before the KPI.
 New OLAP calculation logs will be available in the "AdminServiceLogs" table.

4. Bug fixes

4.1. Portal

- Improved the clarity of applying filters by the end-user on Reports. After applying the filter and reopening the filter menu, active filters should always be pinned at the top of the list.
- Changed the link separator in the report column to a semicolon (;).
- Fixed a bug that allowed an unauthorized user to start a workflow instance from the application.
- Fixed a bug preventing the correct display of step icons in reports.
- Fixed a **Business rule** and **Form rule** logging error when changing the context of a form, i.e. switching between its elements.
- 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.
- Fixed a bug where actions triggered **On timeout** were counted as **Step entries** in the **Heatmap** report.
- Fixed an error where the hint window displayed after clicking on the search bar in WEBCON BPS Portal was missing translations of suggested values according to the user's language.

4.2. Form

- 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 in importing values with ?10 decimal places from an MS Excel file into the **Item list**.
- Fixed an issue with the instance history that occurred when license validation failed.
- When accepting a delegated task, the substitute will now see also the line of the delegate in the **Item list**.
- Fixed an aggregation bug inside the **Report Tile** embedded in the Dashboard column. The problem resulted from the failure to update the column containing the Report Tile.
- Fixed incorrect scrolling of the scroll bar after collapsing the instance history table in the Firefox browser.

- Improved login with an ADD account when editing documents via WebDAV protocol.
- Fixed an issue with displaying multilingual values in the columns of an Item list.
- Fixed a bug that occurred when exporting a **Data table** to MS Excel and the form was 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 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 a bug that occurred after changing the type of a **Global field** to another, when the inheritance of the field configuration was broken.

4.3. Designer Studio

- 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 that occurred when exporting an OCR project with a very large number of fields and dedicated networks.
- 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.
- Introduced additional validation of the package created during application export if the attempt to generate it fails, the export will be aborted.
- Added validation of header values entered into the **CustomResponseHeaders** configuration database.
- Fixed a bug that prevented proper display of parameters (hyperlink generation) when email template contained a reference to a **Data table**.

4.4. Actions

- Fixed an error that made it impossible to go to the configuration window of the **Change field value** action when the action was added in automation with a local variable.
- 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.

4.5. Rules

- Fixed an error 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.

4.6. Data sources

- 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 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.

4.7. Updated components

• Fixed an issue with the service upgrade which prevented upgrading from version 2022 to 2023.

WEBCON BPS 2023 R1

history of changes for version 2023.1.1.56

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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.

2. Changes to existing features

2.1. Form

• 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.

3. Bug fixes

3.1. General

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 idexes in AutomationSessionExecutions with one.
- 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.

3.2. Portal

- Fixed discrepancies in the **Search everywhere** function on **Reports** using Solr as their source of data.
- The Analytics node will be visible for applications made exclusively from related processes.
- On **Reports** that use Solr as their source of data, the search in **Multiple lines of text** (WFD_AttLong) fields has been changed from SortAttLong to AttLong.
- Fixed missing translations in **Recent activities**.
- Fixed an issue with missing **Item list** data on **Reports** containing archived instances.
- 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.

3.3. Form

 Fixed an issue with importing >1000 rows to an Item list from Excel. Rows will be loaded starting from the row specified in the configuration (not the first).

A notification will be displayed if not all rows in the file could be imported.

• 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.

3.4. Designer Studio

- Fixed an issue that occurred when choosing a Global form field for **Dynamic** task assignment in **Task creation**.
- Fixed an issue causing mass notifications to be sent on non-working days regardless of configuration.
- Improved the contextual help in the **REST Web Service** and **SOAP Web Service** data source configuration windows by removing unnecessary HTML tags.
- Fixed mechanism responsible for resetting the counter of incorrect executions after activating the disabled cycle of cyclical actions in WEBCON BPS Studio.
- Added missing info to the LogCleaner context info in **Schedules**.
- Fixed an error that occurred when attempting to switch the order of form fields in a process published from Designer Desk.

3.5. Actions

- Fixed an error 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 error occurred when the choice field was set using a value in BPS format (ID#Name).
- Fixed an issue in the **For each** operator using **Item lists**. The values of an Item list will now be updated in the database after the loop completes.
- Fixed an issue that caused the configuration of the **Move workflow (SQL)** action to be imported incorrectly.

3.6. Rules

• Fixed how the **Empty** function works in process business rules. If a rule was configured to return a specific data type, the lowest possible value was 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.

3.7. Data sources

• Improved data retrieval for the **Choice field (Dropdown)** when using primary/secondary data sources.

3.8. Service

- Improved the way external user accounts are searched when synchronizing with Azure Active Directory.
- Fixed a bug where some antivirus tools classified WEBCON BPS Workflow Service as malware.

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history of changes for version 2023.1.1.41

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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.
- In WEBCON BPS 2023 R1 the WEBCON BPS Authorization Service authentication provider will be completely unavailable, as was announced previously.

If the WEBCON BPS system uses this service, it will be necessary to change this. The system's built-in authentication providers (OpenID Connect or ADFS) should be used instead.

The original announcement can be found in CL 2022.1.3.47 under chapter 2.2.

- This update changes the Solr search database structure. During the update, it will be necessary to provide the Solr database admin's password in order to update the database and correctly complete the update process.
- Data sources that are used by Picker fields and Choice columns must contain at least two unique columns, one for each of the required column types: ID and Name. After updating WEBCON BPS, it will not be possible to use data sources that contain only one column in the configuration of picker fields.

If such a configuration exists, it will not be possible to update WEBCON BPS. Before updating, it is necessary to change the configuration of data sources and choice fields so that the data source contains at least two columns, and so that no column in used more than once in the configuration of form fields.

The installer will verify the configuration of form fields. If issues are found, it will be necessary to manually change the configuration of the form fields shown.

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.

• Installation of the new WEBCON BPS version involves migration of active tasks to the new **ActiveTasks** table. The data copying operation requires sufficient disk space, and its duration depends on the number of transferred instances.

During the update, information on estimated execution time and required disk space is displayed.

2. Information

2.1. General

• The location where several static WEBCON BPS files available publicly are hosted has been changed. This includes the IT Hit Edit Document Opener plugin installer which is used to edit attachments directly from the form. This plugin can now be found at:

https://files.webcon.com/bps/webdavclient/plugins/.

The plugin is installed for users when they first attempt to edit an attachment. In order for it to work correctly, please make sure that this address is not blocked on client computers.

- Added calculated columns to the WFElements table which will allow identifiers of choice fields to be loaded more efficiently. Until now, the dbo.ClearWFElemID function was used. Queries will now use new calculated columns e.g.
 WFD_AttChoose[Number]_ID. This should increase the loading speed of Reports, BPS internal view data sources, and SQL COMMAND functions in Business rules.
- The [dbo].[GetTaskForElement] function has been removed from the database.
- During the update, a migration script will delete empty values for translations from the database. These could have accumulated in previous versions of the system.
- Additional indexes will be created in the WFElementTasks table to improve the archiving performance.
 Depending on the amount of data stored in WFElementTasks, it will be necessary to provide additional disk space to store the new indexes.
 If the number of records in WFElementTasks exceeds 100,000, then, before starting the system upgrade, the installer's requirements verification step will display a message containing the estimated script execution time and the required additional disk space.
- Solr queries will now be executed asynchronously.
- Updated DTK Barcode Reader component to version 5.0.28.

2.2. Form

• Improved the operation of the **Handwritten signature** special form field (also on mobile devices) so that the quality of signatures is higher.



- 2.3. Actions
 - On timeout automatons can now use the following actions:
 - Create a site
 - Create a list
 - Add a new list element
 - The **Read a barcode** action no longer requires Visual C++ Redistributable.

2.4. Rules

• Optimized memory consumption in WEBCON BPS Designer Studio when using **Business rules** and **Form rules**.

3. Changes to existing features

3.1. General

- To ensure greater efficiency, two separate data tables are introduced to store active and historical tasks. Only historical tasks are now stored in the former WFElementTasks table (that used to store all tasks) and its name is changed to HistoryTasks. Active tasks are transferred to a newly created ActiveTasks table.
- Changed the type of the WEL_Details column that contains error logs from varchar to nvarchar. Old logs will be available in the WEL_Details_Deprecated column, which will be deleted automatically once it doesn't contain any logs with data.
- Adjusted the behavior in cases where the time zone on the server is changed.

- Service – logs a warning about changing the time zone and shuts down. If the "Restart the service" option is set in the Recovery configuration (default setting after system installation), then the service will be restarted.
- Portal – logs a warning about changing the time zone and shuts down. Restarts itself in IIS manager.

- **Designer Studio** – logs a warning about changing the time zone and warns the user. Restarts itself <u>without</u> saving unsaved changes.

- Changed the SQL view name from **V_WFElementTasks** to **WFElementTasks**. The view gathers all system tasks (active and historical).
- The step for configuring user list synchronization has been removed from the installation wizard of the new WEBCON BPS environment. This configuration should be done from WEBCON BPS Designer Studio (System settings → Global parameters → Users and groups synchronization → Synchronization configuration) after all components have been properly installed and after logging in to Designer Studio using the built-in Admin Access administrator account.

| WEBCON BPS Adn | nin Access |
|---|------------|
| Please sign in with your administration ac | |
| | 6 |

Configuration of user list synchronization can still be done using the **System management tools** available in the system installer.

- The mechanism for activating license packages and downloading licenses online will now use only one single License activation Service: **activation.webcon.com.**
- Changed the operation of on-behalf substitutions. Currently, the system
 verifies the license of the substituting person, not the substituted user. As a
 result, the administrator is now tasked with verifying whether the substituting
 person has the privileges required to execute the tasks of the substituted
 user.
- Changed the default method of communication between WEBCON BPS Portal and WEBCON BPS Workflow Service. Communication between these two system components will now be secured with relevant certificates.

3.2. Portal

- Optimized operation of the **choice field** form field with enabled the **autocomplete** mode.
- A loader was added when saving the configuration of report views.
- Changed the appearance of the tab panel available after going to **Profile** settings.

| AS Alice | Edit profile e Smith mith.webcon@gmail.c | om (gpriva | te) |
|------------------|--|--------------|------------|
| General settings | l Notifications | | 🔒 Security |
| Language: | English | ~ | |
| Themes: | WEBCON Light | \checkmark | |
| | | | Save |

The introduction of new features entailed a change in the appearance of the main menu as well. The operation of features available in previous versions remains as before.

- Calculated columns, system fields, and Item lists will not be exported to Excel from **Dictionary reports**.
- Changed the arrangement of names of process, form type, and document workflow when they are longer than single line of text. Currently, all lines of text are aligned with the first line.
- A user that has been granted access to a **Report**, but does not have privileges to any application, will not be able to access Portal.



3.3. Form

- If the attachment preview is opened when the form is loaded the first added attachment will be displayed (instead of the first one alphabetically).
- Unified the value returned by Yes/No picker fields, their "true" or "false" values will always be lowercase.
 This change may affect data sources and actions that invoke REST and SOAP Web services, specifically if their configuration passed a boolean value as text.
- Exporting data to Excel from a Data table form field can now also be done in View mode on the form – i.e. a user does not need to edit the form to use this export feature.
- Fixed the layout of the Choice field window when choosing multiple values

 it will no longer cover up the search field.

Added verification which will check the length of the data to verify whether it will fit into the target column – instead of cutting off the value, the user will receive a notification about exceeding the limit.

```
    Validation error
    Picker:

            The number of characters has exceeded the allowed limit.
            Choice field values may have a total length of up to 1000 characters (this includes characters in both the name and identifier).
```

 Changed the behavior and method of caching Item list data.
 Initialization of the Item list will be treated as its default value and executed in the sequence of counting default values on the form, as in the case of other form fields.

The data of hidden columns of the Item List will not be retrieved at its initialization.

- If the instance signature contained diacritical marks, such as "q", searching for it in a Choice field configured in Autocomplete mode was possible only after replacing such a character with a letter from the Latin alphabet (e.g. "q" with "a"). The feature is no longer available, and now signatures can be searched by their original wording.
- Data sources that are used by Picker fields and Item list choice fields must now fulfill two new conditions:

- The data source must contain at least two columns that will be assigned to the two required column types: **ID** and **Name**.

- Source **columns** cannot repeat within the configuration of one choice field or column.

WEBC ON[®]

As for the second condition, to handle scenarios where the value from one source column needs to be copied to many form fields, the configuration of the **Target column** now allows for multiple fields to be selected.

| Cor | _ | | | | | | |
|---|-------------------|--|---|-----------|------------------------|---|--|
| Type ID Name | ID ID ID · | | Target field <none> <none></none></none> | Searching | Show in dialog (PopUp) | Ð | |
| Name Name Image: Construction Image: Construlicity Image: Construction <t< td=""></t<> | | | | | | | |
| Code y data source in variables retain ellipty values Empty element display name Allow selecting values no longer available in the data source Load data asynchronously Sort by Display Field Allow also choosing intermediate nodes Support multi language names | | | | | | | |
| Allo | w multiple values | | | | | | |

When updating WEBCON BPS, configurations of choice fields and columns that contain duplicated source columns will be converted into this new model so as to keep the source columns unique – but also to keep the original function of the form field.

 Changed the behavior of the ##currentloginname## variable in the case of All/Direct subordinate's views. When switching to the view of all subordinates, the value of this variable will contain user identifiers separated by semicolons. • Changed the behavior of the **Single line of text** form field configured as a **Hyperlink field**. After the change, only the **Address** field will be displayed and available for editing by default on the form. The **Name** field will only appear when the user clicks on the pencil icon.

| Website: | Address: | |
|----------|----------------|---|
| | www.google.com | Ø |
| | Name: | |
| | | |

Clicking on the icon again will cause the filled-in Address field to be displayed in read-only mode, the value entered in it to be replaced by a hyperlink, and the Name field to be hidden.

| Website: | www.google.com | Ø | |
|----------|----------------|---|--|
| | | | |

- Disabled the preview of MS Excel files directly on a form. Currently, when attempting to preview the contents of a file (clicking on the file icon), it will be downloaded locally to disk.
- Changed the validation of values entered for **Choice fields**. Only values entered manually by the user will be validated, as opposed to those entered automatically by system actions. It will not be possible to save a form if the value entered by the user is invalid. Should a reference be created to an unvalidated Choice field value, the returned value will be empty.
- The cash-dom library has replaced the former jQuery library. The change may affect how form rules work in JavaScript mode if the rules used the functionality provided by jQuery. For a description of the differences in the operation of the two libraries, see: https://github.com/fabiospampinato/cash/blob/master/docs/migration_gu ide.md.
- Changed the appearance of the cursor that appears when hovering over the name of a group of form fields on a workflow instance – a "pointer" type cursor will be displayed in this case.



3.4. Designer Studio

- The BPS users list option, which was previously available from System settings → Global parameters, has been replaced by the Users and groups synchronization option. The new node contains all previously available features, except that the list of BPS users and groups has been moved to the additional node named BPS users and groups list. The new window contains two dedicated tabs: BPS users and BPS groups.
- Fixed an issue with form field configuration migration. The error caused the Empty element display name option in Choice fields in Dropdown mode to be cleared if its value was a space (or other whitespace characters). In previous versions, simply entering a value into the Empty element display name would activate the option.
 After this fix, the option will need to be activated via a new checkbox in the choice field configuration.
- Reading and saving of attachments with custom categories have been unified in all dedicated actions, rules using **GET ATTACHMENTS** function, and for automations configured using **For each** operator with **Attachments** as the indicated collection type.

In the configuration windows for all of the above, the **Custom** category of attachments has been replaced with the **Dynamic** one.

It is now possible to dynamically match the entered name of the attachment category with the categories available in the data source. If the indicated category does not exist in the source, a custom category (from outside the source) will be matched.

- Designer Studio no longer supports --sql and --legacyExpressionTree parameters.
- Form field Groups can no longer be renamed or deleted in LITE mode.



3.1. Instance ID changes

Instance ID has been removed from the list of system form fields. This identifier is now available among the **Standard areas** of the form. User can decide whether instance ID will be visible on the form by checking the box assigned to it on the **Field matrix**:

| Glot | bal form template | Field matrix 🔤 Behavior | | | |
|----------|--------------------|---------------------------------|----------------|------------------------|---------------------|
| orm typ | oe filter: All | | | | |
| ilter by | form field name: | | | | |
| _ | | | | | |
| To | p panel 📰 Left pan | el 📑 Right panel 💼 Bottom panel | Standard areas | | |
| | Areas | Start | Coun | nterparty registration | Missing information |
|) Area | as | | | | |
| 9 | Status panel | V | ✓ | ⊠ | |
| | Information | ✓ | 1 | ✓ | |
| | Instance ID | ⊿ | | ⊻ | |
| | Steps | ⊻ | \checkmark | \checkmark | |
| | Details | ⊻ | \checkmark | Ń | |
| | Assignment | ⊻ | \checkmark | ⊠ | |
| | Parent instance | | | ⊠ | |
| | Subworkflows | ≤ | | V | |
| | Process supervisor | ⊻ | \checkmark | ĭ. | |
| | User manual | ⊻ | \checkmark | ⊠ | |
| | CC tasks | | | | |
| 3 For | m menu | | | | |
| | New | | \checkmark | \checkmark | |
| 1 | Save | | \checkmark | \checkmark | |
| | Delete | | | | |
| | Refresh | | | | |
| | Path list | | | | |
| I | Delegate | | | | |

or, when editing a step, in the Area visibility section of the Forms tab:

| General | Forms 🖓 Paths | Actions Analysis Show control | Subworkflows settings | s | |
|---|------------------------|---|--|--------------------|---------------------|
| orm: | Default form | • 5 | New Edit | Delete | |
| Main form | 🖳 Main form - behavior | Compact form | avior | | |
| 50 Full scr | een mode | +New 🖌 🗟 Save 🖌 🗟 Delete 🗸 | 🛿 Refresh 🔽 😽 Path list | S,Delegate | |
| Form p | | | | | |
| orm type filte All Form pro | ~ | Counterparty registered by Counterparty data Fiel Counterparty name | | Task details | ¥ |
| Co Dynami | c ~ | abc Tax ID | v v x v v x | ALL ATT | ACHMENTS |
| orm subtyp | | abc Street | ✓ ✓ % | ATTACHMENTS | EMAIL CONVERSATIONS |
| Bidden Path panel lo | vcation: | abc Postal code abc City | ✓ | Name: Created: | ~ |
| Area visi | bility | | | Comments | ✓ |
| ✓ Status pa ✓ Informa | | | | Counterparty costs | * |
| Instance Steps Details Assignm Parent i | nent | Counterparty - list of related invoices | | | × |
| Vuser ma | supervisor anual | Register 🖌 Save 🗸 | | | |
| CC tasks | | | | ent preview こ | |
| | | annot be modified except by JavaScript) 🗸 Req | and a second | | |



If the user has chosen that Instance ID will be visible on the form, then in WEBCON BPS Portal it will no longer be displayed in the **Information** section, but in a separate, dedicated section of the **info panel**.

| 🕼 🕒 🕲 (i) |
|--|
| Information |
| Process: Counterparty data - Process |
| Form type: Counterparty data - Form |
| Workflow: Register counterparty |
| Instance ID |
| 8096 |
| Steps |
| √ Start |
| → Counterparty registration Missing information |

3.2. Actions

- Added an alert in the Invoke REST Web Service action that uses JSON Grid controller warning users about deleting subordinate nodes when changing collection type to valuesCollection.
- If the **Printout a barcode label** action fails to print any barcode in synchronous mode, the entire path transition will be aborted.
- The **Manage BPS user licenses** action can now also be used in on-prem installations that use the subscription licensing model.
- Changed the manner in which attachment names containing special characters are recognized and modified with the **Update attachment** action.

3.3. Unification of Error handling in Automations

Error handling in automations will now work differently in cases where there is a series of automations triggered in one continuous transaction e.g.: **On exit** from a step \rightarrow **On path** between steps \rightarrow **On entry** to the next step.

Until now, an error in one automation would engage the error handling flow for that specific automation.

In version 2023 this works analogously, but the error handling flows of all automations previously completed in the same transaction are also activated.

The error handling flows of other automations will be executed in reverse order, i.e. from the most recently completed to the first automation.

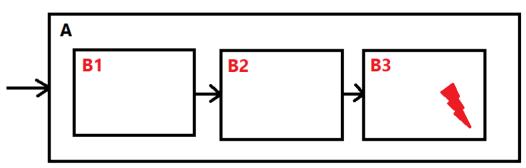
This change also includes automations whose configuration contains nested automations.

For example: Automation A contains automations B1, B2, and B3, as seen on the diagram below.

These automations are triggered in order A \rightarrow B1 \rightarrow B2 \rightarrow B3.

If an error occurs in automation B3, its error handling flow is activated, and then the error handling flows of all previous automations are also engaged from most recent to the first, which means that the error handling flows are triggered in order:

$$B3 \rightarrow B2 \rightarrow B1 \rightarrow A.$$



The state of parameters, variables, form fields, and attachments used for error handling will be remembered from the moment when the automation was originally triggered. Attachments will be returned to the state from before the group of automations was triggered.

Note: If an instance of a parent workflow leaves the **Wait for subworkflows** step and encounters an error, the error handling will only include the automations from that parent workflow. The subworkflow instance that caused the parent instance to leave the step will not be affected – its automations were completed in a previous transaction.

3.4. Rules

Changed the order in which rules are executed when starting a workflow instance. After the change, the order is as follows: 1) restrictions, 2) default values, 3) other values set by: users, actions that change the instance, URL parameters.

The change has a particular effect on the actions **Start a subworkflow** and **Start a subworkflow (SQL)**. Therefore, the configuration windows of these actions have a new option, **Set form field data before defaults evaluation (compatibility mode)**, which enables maintaining the current system operation when using these actions.

| Configuration - Start a subworkflow (SQL) | |
|--|---|
| Basic GAdvanced | fx OValues : [3] |
| Additional task for: | Enter text to search |
| Additional CC task for: | Name System fields |
| Overwrite instance author | ⇒ Form fields |
| Check logged on user privileges to add new workflow instance | Global constants Process constants |
| Copy attachments to subworkflow | ⊖ Context variables |
| Set form field data before defaults evalutation (compatibility mode) | Context constants Automation context variables |
| | Performance indicators |

3.5. Data sources

 Changed the JSON deserialization settings for **REST Web service** type data sources. Dates saved as strings (ISO format) will be deserialized into the specific format chosen in the REST data sources configuration (String, Date, DateTime).

Example date in JSON: "2022-06-11T00:00:00" will be deserialized as follows, according to the response type:

- String: "2022-06-11T00:00:00"
- Date: DateTime "11.06.2022" for "pl-PL", "06/11/2022" for "en-US"
- DateTime: DateTime "11.06.2022 00:00:00" for "pI-PL", "06/11/2022 00:00:00" for "en-US"
- The **PickerVal** tag will return the value from the first searched column (if more than one column of the choice field is searched).



- If the configuration of a **Rest Web Service** data source contains a field that was previously mapped but is now missing from the service response, it will be shown as empty. Previously, such a scenario would result in an error.
- IDs in Fixed value list data sources can have a value of "0".

3.6. Mobile app

• The mobile app for Android will now be available in the Google Play store for devices without cameras.

3.7. Service

 Expanded the LogCleaner module functionalities with removing active tasks from the ActiveTasks table and changed its name to LogAndDataCleaner. Additionally, accepting a task assigned to a group by any person belonging to the respective group by means of the MailApproval functionality results in changing its status to accepted.

3.8. Designer Desk

- The English-language name of the default report created for the application prototype has been changed from "All documents" to "All items". In addition, the option to display the **Link** to an **Instance number** will be checked by default in the report configuration in the **Views** tab.
- The **Unlimited Solutions Access** license is no longer required when working in Designer Desk.
- Each step now has more ports for drawing paths in Workflow designer.

3.9. API & SDK

- An API application must have an assigned license to carry out requests associated with e.g. starting a workflow instance.
- The 200-character limit has been removed for places in Designer Studio where URLs could be configured (e.g. in REST and SOAP connections and data sources).
- Added encoding for URL values passed through variables.
 Use RAW variables if the values should not be encoded.
 When passing a value e.g. "Domain\user", the "\" will be replaced with "%5C".

4. Security fixes

4.1. Form

• Fixed an issue in WEBCON BPS Portal that allowed a non-administrator user to assign different types of privileges to other users.

4.2. Updated components

- Updated component JSON 5 to version 2.2.3 due to CVE-2022-46175 https://github.com/advisories/GHSA-9c47-m6qq-7p4h
- Updated component tinymce to version 5.10.7 due to CVE-2022-23494,CWE-79 – https://security.snyk.io/vuln/SNYK-JS-TINYMCE-3166281
- Updated component Newtonsoft.Json to version 13.0.2 Due to CWE-755 – https://security.snyk.io/vuln/SNYK-DOTNET-NEWTONSOFTJSON-2774678
- Updated component NuGet.CommandLine to version 6.3.1 due to CVE-2022-41032 – https://security.snyk.io/vuln/SNYK-DOTNET-NUGETCOMMANDLINE-3043007
- Updated dependencies in the Active.Directory.Utils project in relation to CVE-2022-34716 https://security.snyk.io/vuln/SNYK-DOTNET-SYSTEMSECURITYCRYPTOGRAPHYXML-2977914
- Updated component **BouncyCastle.Crypto** to version 1.9.0.0 due to it being erroneously treated as a threat: https://www.virustotal.com/gui/file/de1c0dd2bbcdf8a3af539a8de3 51d55a01a9dde5d1bcdc5dc564ec70cc0784a2/detection
- Updated component System.Data.SqlClient to version 4.8.5 due to vulnerability CVE-2022-41064, CWE-200: https://security.snyk.io/vuln/SNYK-DOTNET-SYSTEMDATASQLCLIENT-3110424



5. New features

5.1. WEBCON BPS Analytics

WEBCON BPS has gained a new feature for displaying statistical information about an application / a process. In Portal, users now have a dedicated **Analysis** node with tabs that compile key figures and time series in the context of available applications. Also introduced is the ability to track trends on working with the system, as well as display a **Heatmap** for a selected application.

Key application indicators

The **Analysis** node is a highly developed version of the previously available **Insights** node. The change affected not only the node's name, but also its contents – as before, users will find **Suggested** workflow instances here, but now they also have a new **Analytics** option, including the **Overview** subnode.

Indicators per process

After clicking on **Overview**, users will see **Key application indicators**, and more precisely, the **Per process** tab, whose content will vary depending on the applications used and privileges granted.

| WEBCON < | ::: Choose application | | | | Search everywhere | | ٩ | ₽ ☆ |
|--|--|---------------------------|-----------------------------|----------------------------|------------------------------|---------------------------|---|--|
| Q, Search in navigation 요 Home | Key application indicators | | | | | | | All applications 💌 |
| ↓ My Tasks | BUSINESS ENTITY PURCHASES 🔻 | | | | | | | |
| 우 Analysis ^ 당 Analysis ^ 쇏 Overview | ADVERTISING MATERIALS & SLOGANS 👻 | 9 Number of instances | 6 Active instances | S Ended instances | 6 Number of active tasks | 2 People involved | A | 9 hours 4 min. |
| 유 Suggested 옮 Searching structures → | Advertising Materials & Slogans Process 🔻 | 9 | 6 | 3 | 6 | 2 | | 9 hours 4 min. |
| | Advertising Materials & Slogans Workflow | 9 | 6 | 3 | 6 | 2 | | 9 hours 4 min. |
| | BUSINESS ENTITY PURCHASES > | 44 Number of instances | C 31 Active instances | O 13 Ended instances | 25 Number of active tasks | A B People involved | | Thours 22 min. |
| | WEBINARS > | 3 Number of instances | 1 Active instances | 2 Ended instances | 3 Number of active tasks | 2 People involved | | (5) 43 min. 59 sec. verage task duration |
| | | | | | | | | |

The data of individual applications in the report are grouped and displayed according to the current state, in alphabetical order, just like in WEBCON BPS Designer Studio. When you click on an application, a list of its processes is expanded, and when you click on a process, a list of related workflows is displayed. Each such data set contains the following information:



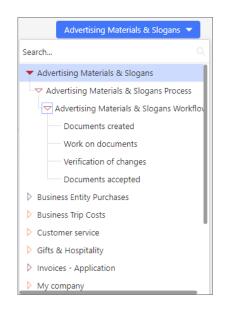
- Number of instances
- Active instances, i.e. instances outside the final step
- Ended instances, i.e. instances in the final step, either positive or negative
- Number of active tasks
- **People involved**, i.e. users who completed at least one tasks on their own and whose tasks are not canceled
- Average task duration (applies only to completed tasks).

By default, global business administrator will see in the report the data of all processes and applications.

Similarly, business administrator of a process will see the data of only those processes to which they have access.

If a user does not have business administrator privileges to any process, **Key application indicators** report will not be visible to them.

In the upper right corner of the screen, there is a filter to narrow down the report view to the data of a selected application, process, workflow, or even a step.



Indicators in time

The **Overview** subnode also has another tab named **In time**. It is a report that provides a visual representation of the most important information about working with applications, processes, workflows, and workflow instances in WEBCON BPS, organized over time. Here, users can check the number of individual instances, operations, and tasks, as well as the time spent on their processing and execution.



| WEBCON | < | ::: Choose application | Sea | rch everywhere | ٩ | \$ ☆ |
|---------------------------|---|--|--|---|---|----------------------|
| Q Search in navigation | | Key application indicators ■ Per process 比 in time | | | All applications | Last 90 days 💌 |
| Ф My Tasks Ра Analysis | | | e processing time 5 sec. Last 90 days | Ended positively Last 90 days | in companio | n mor, prenous range |
| Analytics | | Previous range Trend 65 480% 1 hour 37 m | | Previous range Tree 47 48 | | |
| Pg Anomalies | | | S: NEWLY CREATED VS ENDED | | | |
| A Searching structures | | 867 Total number of operations on instances Late No days Previous range 47 777% 15 hours 16 min. Image: Comparison of the second stances Late 00 days Previous range 12 hours 16 min. Image: Comparison of the second stances Late 00 days Previous range 22 min. 54 sec 3 hours 23 min. | Strend of Called VS ENDED | | and the second se | |
| | | 11 days Average task time | //5 | Finished task count 15 Last 90 days | | |
| ≫ WEBCON Intranet | | | Trend 467% ars who completed at least one task in a given tith canceled tasks are not included. | Previous range Tree 96 48 Number of all tasks finished by users in a g tasks are not included. | 4% | |

If the user has applied a filter that narrows down the displayed information in the first tab, for example, to a selected workflow, the filtering settings will be automatically inherited on the other tab. And vice versa – after setting the filter for **In time**, the data on the first tab will also be narrowed down accordingly.

The tab consists of the following indicators:

- Newly created
- Average processing time
- Ended positively
- Total number of operations on instances
- Total form filling time
- Average form filling time
- Average task time
- Instances: Newly created vs Ended
- All people involved
- Finished task count

By default, data from the last 90 days are presented. The user can independently define the period for which statistics will be displayed or choose one of the predefined ranges expressed in days, months, quarters, or years. A dedicated filter in the upper right corner of the tab is used for this purpose.



| ST 90 DAYS 11/24/2022 IMPARE: PREVIOUS RANGE 08/27/2022 November Sun Mon Tue Wed | | /20/2023 /23/2022 | ↓ Sat | SELECTED RANGE Today Last 7 days Last 30 days Last 90 days This month |
|--|-------------|----------------------|----------|--|
| MPARE: PREVIOUS RANGE 08/27/2022 November | 11/ 2022 | /23/2022 ¥ | | Last 7 days Last 30 days Last 90 days |
| 08/27/2022 | 2022 | * | | Last 30 days Last 90 days |
| November 🗸 | 2022 | * | | Last 90 days |
| | | | | |
| Sun Mon Tue Wed | Thu | Fri | Sat | This month |
| | | | | |
| 30 31 1 2 | 3 | 4 | 5 | Previous month |
| 6 7 8 9 | 10 | 11 | 12 | This quarter |
| | | | | Previous quarter |
| 13 14 15 16 | 17 | 18 | 19 | This year |
| 20 21 22 23 | 24 | 25 | 26 | Previous year |
| 27 28 29 30 | | | | Custom |
| | | | | COMPARE |
| | | | | Same range last year |
| | | | | Previous range |

Additionally, it is possible to compare data from the corresponding **Previous range** (e.g. year-on-year), thus obtaining information on **Trends** for all presented parameters, i.e. related to the tasks performed and the time spent on them or working with the form, etc.

After indicating the preferred time period in the filter, the data presented in all sections on the tab will be changed accordingly.

All the above features are also available from within the application. The filtering on both tabs is then automatically limited to that specific application, and the indicators prepared only on the basis of related statistical data.

Heatmap

If user would like to analyze the statistics of a specific application, they can use an additional option, the so-called **Heatmap**. When this node is selected, the related workflow is displayed, with "hot" and "cold" points marked on it. Steps and paths are highlighted according to the frequency of their selection by the form user and the time spent on tasks, as shown in the legend below. The arrangement of steps and paths of such a workflow is as configured in WEBCON BPS Designer Studio – it is possible to alter it, but the changes made cannot be saved.



| WEBCON | < | 🗰 Advertising Materials & Slogans | Search everywhere | |
|-------------------------------------|--------|-----------------------------------|---|--|
| ${\sf Q}$ Search in navigation | | Workflow heatmap | | |
| 分 Application Home | | Report type: Step entry 💌 | Advertising Materials & Slogans Process / Advertising M | laterials & Slogans Workflow 🔻 Previous year 💌 |
| ♫ My Tasks | | | | |
| $\mathcal{P}_{\mathbf{g}}$ Analysis | ^ | Save | | |
| 😡 Analytics | ^ | | | |
| ណ៍ Overview | | Share with coworkers | 6 4 Share with superior | Accept |
| 🚰 Heatmap | | Documents created 5 | Work on documents 3 Verification of change | B Documents accepted |
| ₽ _₽ Suggested | | | Return to the author | |
| ▷ Starts | \sim | | | |
| 📰 Dashboards | \sim | | | |
| 器 Searching structures | \sim | | | 0 6 |
| | | | | + |
| ≫ WEBCON Intranet | | | | Show values |
| | | | | |

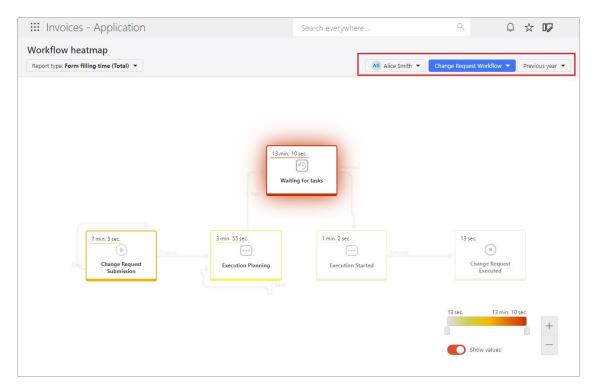
Users can choose from the following report types:

- Step entry
- Step re-entry
- Time spent in step (total/average)
- Task waiting time
- Form filling time (total/average)
- Overdue tasks

| | Step entry Total number of entries to the step, workflow, and the number of times users have gone through the path. |
|--------------|---|
| Ø | Step re-entry Number showing how often instances returned to the same step. |
| \bigotimes | Time spent in step Time representing how long instances stayed in a given step. Total Average |
| | Task waiting time Average waiting time for task completion by the user to whom the task was assigned. |
| Ö | Form filling time Time users spent on filling out a form. Total Average |

Depending on the selected report type, an integer or timestamp (to the nearest 1 hour, minute, or second) value is displayed in the upper left corner of the step and next to the path.

The report can be filtered by: **users** who had tasks assigned in the process (applies only to the last three report types in the list), **workflow** (the first workflow of the first application process is displayed by default), and by **period**.



Note: if necessary due to country-specific legal restrictions, filtering by users can be disabled by setting "0" for the **TopUsersEnabled** global parameter in the configuration database (the default value is "1").

By moving the slider on the legend, users can change the range of values presented on workflow steps and paths. Additionally, by properly setting the **Show values** button, it is possible to display the workflow according to individual preferences – with or without numerical data.

Please note that ONLY users with WEBCON Advanced Analytics Framework license have access to analytical reports and indicators as part of this new feature.



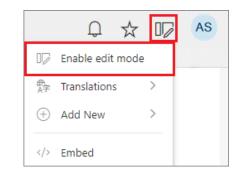
5.2. Edit mode in Portal

Users are now able to view and partially change the process configuration from WEBCON BPS Portal. The new feature allows for editing the names of form fields, steps, as well as the content of translations and descriptions of paths and steps directly in Portal. Additionally, it is possible to view the configuration of workflows, automations, and rules from there.

Note that if a process is checked out or has been modified via the export-import mechanism, its configuration in Portal will always open in read-only mode. The user will be informed about this with a relevant message.

Enabling the edit mode

After enabling edit mode, privileged users can modify process configuration to a certain extent, and the changes they make do not require additional validation or publication by admin. To enable edit mode, they should click on the icon right next to their profile picture and select **Enable edit mode**.



The **Process Design** node will then appear on the left-hand panel where all processes within or related to the current application are available – users can edit them based on their privileges.

The following are authorized to edit a process:

- global system admin,
- application admin, and
- users who have been granted the privilege **Designer Desk edit in Portal** directly in process configuration.

By expanding the node of a given process users can display its workflows. After selecting a workflow, a component with the following three tabs appears: Workflow designer, Form designer, Field matrix.



| WEBCON | < | 👯 Webinars | Searc | h everywhere | Q | 📮 🛧 📭 🔺 |
|-------------------------------------|--------|---|-------|----------------------------|----------------|------------------|
| Q Search in navigation | | 문 Form designer 문 Workflow designer Field matrix | | | | Default 🖂 🔚 Save |
| Application Home | ٢ | Farma Daniara | | | | |
| Q My Tasks | | NF Form Design | | | | |
| ▷ Starts | \sim | _ | | | | _ |
| 🗃 Dashboards | \sim | Date of registration | 21 | Task details | | |
| III Reports | \sim | Registrant | ~ | (i) | | |
| $\mathcal{P}_{\mathbf{g}}$ Analysis | \sim | | | | | |
| 융 Searching structures | \sim | Webinar name | | ATTACHMENTS | | _ |
| 🕞 Process Design | ^ | Description | | | no attachments | |
| 昭 Webinars - process | ^ | | | Comments | | |
| ${\cal C}$ Webinars - workflow | | Date | 6 | Ţ. | | |
| | | Place | | 🗟 Save comment | | |
| | | Participant information | | I will attend this webinar | | |
| | | Participant | ✓ = | 1. O Yes | | |
| | | Position | | 2. 🔿 No | | |
| 🕀 Add new | | E-mail address | | | | |
| ≫ WEBCON Intranet | | | | | | |
| | | | | | | |

The appearance of all these designers is similar to those available in WEBCON BPS Designer Desk. In case a user does not have Designer Desk licenses, all designers will open in read-only mode and the user will be prompted accordingly.

The last privilege level mentioned above, **Designer Desk edit in Portal**, is also a novelty and can be assigned to users and groups when configuring a process in WEBCON BPS Designer Studio.

| Tasks Appearance | WEBCON Business Process Suite - Designer Studio | _ 🗆 X |
|---|---|--|
| Applications | | |
| Getting started G | °% New Asset & publish process Delete Clone General Asset privileges GDPR settings Compact view Usages General Business entity: Firma kizak Business entity: Firma solidina Business entity: WEBCON Business Business administrator: Ion Green; Ion Green; Ion Green; | Sy AI rules ess entity: WEBCON DE Busines |
| Decision relinpace Decision relinpac | Access and edit all workflow instances: Access all workflow instances and attachments: | - & - & - & - & |
| | Launch new workflow instances: | - 2. 2. 2. 2. 2. 2. |
| Applications | Manage archive: | - & |
| Data sources | Additional privileges | |
| System settings | Designer Desk edit in Portal: | · 원 옷 |
| Plugin packages | | ole via WEBCON BPS for Microsoft Word |
| Finished | | |

Form designer

Form designer is a component that allows users to preview the layout and configuration of form fields. Additionally, authorized users can edit basic form field data, i.e. change the contents of the Name, Description, and Documentation fields.

When a user clicks on the desired form field, a characteristic frame appears around it, with a pencil icon above. After clicking on this icon, the **Properties** window is displayed with an option to edit the relevant data.

| > III Webinars | | ९ 🖞 🖈 | AS |
|--|---------------|--|------------|
| 문 Form designer 유 Workflow designer 📰 Field matrix | | Properties | -⇔ X |
| NF Form Design | | Field label:* | |
| | | Date of registration | ∯÷ |
| | Ø | Field type: | |
| Date of registration ① | Task details | Date and time | |
| Registrant | ~ (i) | Description: | |
| | | Current date. | |
| Webinar information | | | |
| Webinar name | | | |
| Description | | | |
| | Comments | | |
| | | Documentation: | |
| Date | ₽ | The field is automatically filled in with the current date | e. |
| Place | E | | |
| Participant information | I will attend | | |
| Participant | = 1. () Yes | | |
| Position | - 2. () No | | |
| FUSICION | | 1 | |
| E-mail address | | | |
| | | | |
| | | | |
| | | Advance | d settings |

What is more, by selecting the **Advanced settings** button, users will see an additional **Field details** window consisting of two tabs: **General** and **Field rules**, where they can view any configured default value rules, rules executed when the value is changed, as well as visibility, editability, and requiredness rules. The content of this window varies depending on the type of form field / **Item list** column, and the information therein is available in read-only mode.



| Field details | <i></i> |
|---|---------|
| General Field rules | |
| Default value rule: | |
| 1 | Q |
| | |
| Rule executed on value changed: | |
| SET Average rating (number) = Add ratings / [3] | Q |
| | |
| | Close |

The user should click **Save** in the top menu, just below the profile picture, so as not to lose their settings. All changes made will be immediately visible in the production environment.

Translations of form field and column names

In addition to editing their **Properties**, it is also possible to enter translations of the names of form fields and item list columns in languages defined in the system configuration.

Selecting the **Form designer** language in the top menu allows users to edit the names of form fields and columns in the selected language directly from the designer.

| Q | | Q 🏠 🛛 | AS |
|---|---------|--------------------------|--------|
| | | Default \smallsetminus | 📙 Save |
| | Default | | |
| _ | en-US | | |
| | de-DE | | |
| | uk-UA | | |
| | fr-FR | | |
| | it-IT | | |
| | ru-RU | | |

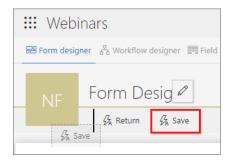
Translations of a form field name can also be edited in the **Translations** window displayed by clicking the dedicated icon in the form field properties.



| Ente | er translations for each supported language | |
|----------------|---|--|
| Original text: | Nazwa projektu | |
| en-US | Project name | |
| de-DE | Projektname | |
| uk-UA | | |
| fr-FR | | |
| it-IT | | |
| ru-RU | | |

Editing names and reordering global action buttons

With **Form designer**, users can also edit the names and change the order of global action buttons, if defined. Renaming a button is analogous to renaming form fields. However, setting the buttons in a different order than the default requires clicking the desired button and dragging it to the appropriate place in the menu. Such a change is made only at one level – it is not possible to create groups and place buttons in them.



Workflow designer

Workflow designer is one of the tabs available in the process edit mode. After navigating to this tab, a graphic diagram of the workflow is displayed. By clicking on the selected path or step, users can edit the names and descriptions of steps and paths in the dedicated **Properties** window.



| WEBCON | K Webinars | Search everywhere | ् 📮 🕁 🔽 🔺 |
|-------------------------------------|--|---|---|
| Q Search in navigation | 문 Form designer 😤 Workflow designer 🚟 Field matrix | | Properties -¤ × |
| Application Home | | | Step name: |
| Д My Tasks | | | Participation confirmation |
| Starts | × | | Description: |
| 器 Dashboards | Save | Participation confirmed Participant registered | Please confirm whether you'll participate in the webinar. $\Re P$ |
| I Reports | ~ ~~~~~ | | |
| $\mathcal{P}_{\mathbf{g}}$ Analysis | Notify Cooperation | | |
| දී Searching structures | Webinar registration | | Documentation: |
| 🔁 Process Design | ^ | () | Documentation: |
| 🔁 Webinars - process | ^ | Participation rejected | |
| ${\cal C}$ Webinars - workflow | | | |
| | | | |
| ① Add new | | | |
| ≫ WEBCON Intranet | | | |

Using the dedicated icons in this window, the user can also enter translations for all editable text fields.

If an automation or a business rule is configured for the selected workflow, the designer allows users to preview it – all they need to do is click on the cogwheel icon on the step or near the path.

| | Automation on step exit | 2 X |
|----------------------|------------------------------------|-------|
| 😨 Definition 📑 Error | handling | |
| Name: | Send e-mail to the Project Manager | |
| Documentation: | | |
| Definition: | | |
| | Send a custom e-mail | |
| | Finish | |
| | <u></u> | Close |

In addition, users can view the detailed configuration of a path by selecting **Advanced settings** in the path properties. This will bring up the **Path details** window which is divided into two tabs: **General** and **Task creation**.



| | Path details | 2 X |
|---|------------------------|----------|
| General 🕅 Task creation | | |
| Task name: | | en AF |
| Task description: | | ₫. X9 |
| Tasks assignment: | | |
| Predefined Based on business rule Based on form field value | Assign to current user | |
| Form field: | Task carried out by | |
| Column: | | |
| | | OK Close |

The window contains information about assigned tasks as well as business rules and automations configured on paths. As in the case of form fields, all this information is available in read-only mode, but users can add/edit task name and description.

Field matrix

When the edit mode is enabled and a workflow selected, authorized users can also view the **Field matrix**. This tab contains information on the visibility of form fields at each step of the workflow, but in Portal it is available in read-only-mode. If user attempts to change it, a message will appear informing them that modifications to the Field matrix are only possible for WEBCON BPS Designer Studio users.

| 뮨 Form designer 윰 Workflow | designer 🚟 Field matrix | | | Default \smallsetminus |
|----------------------------|-------------------------|--|---|---------------------------|
| TOP PANEL EFT PA | | | Visit V Requ | |
| FIELDS | WEBINAR REGISTRATIC | PARTICIPATION CONFIRMATION | PARTICIPATION CONFIRMED - PARTICIPANT REGISTERED | PARTICIPATION REJECTED |
| Date of registration | | | | |
| Registrant | | | | |
| Webinar information | | | | |
| Webinar name | | | | |
| Description | | | | |
| Date | | ble to change. Editing of the field ma lable in WEBCON BPS Designer Studi | | |
| Place | | | | |
| Participant information | | | | |
| Participant | | | | |
| Position | | | | |
| E-mail address | | | | |



5.3. License management and External User Access

Added a series of improvements to the interface for managing licenses:

- Enhanced the existing **Users management** node in the Admin Panel on Portal. Added a new page for settling **External User Access licenses**.
- Added a version of this node in Designer Studio.

In the **System settings**, the **License allocation** node was added – this acts as a simplified version of the **Users and licenses** report in the **Admin Panel** on Portal.

This report is used to allocate all 5 types of licenses to users:

- Designer Studio Access
- Designer Desk Access
- Unlimited Solution Access (previously CAL)
- Single Solution Access (for a single process, only used in the subscription model)
- External User Access (new type of license for external users, only used in the subscription model)

| Tasks Appearance | | WE | BCON Business Process Suit | e - Designe | r Studio | | | | | - 1 |
|--|--------------------------|------------|------------------------------|----------------------------------|---------------------------|-------------------------|-------------------------|---------------------------|------------------|-----------------|
| System settings | System settings | 0 | | | | | | PRO | DUCTIO | |
| ∋ T₀ Global constants | oyotonn oottango | (License | s allocation) | | | | | 1110 | | |
| Business rules Form rules | 🕐 Refresh 🛛 🔄 Add / remo | ove licen: | ses 🗸 📑 Used licenses report | | | | | ≣ Act | ive users \vee | ∀ Filter |
|) 상 Automations) (방 Gobal fields 일 Licenses allocation | Display name | | ↑ User identifier | Unlimited Solutions Access | Single Solution Access | External User Access | Designer Desk Access | Designer Studio Access | Туре | |
| Appearance Global privileges Designer Desk Permissions | Aleksander Dorbosz | : | adorbosz@gmail.com | | 0 83 | | | ~ | Defined - E | xternal User |
| | Alice Smith | : | alice.smith.webcon@gmail.com | ~ | 0 조궁 | | V | | Defined - E | xternal User |
| Active Directory Actions Configuration (3) Users and groups synchronization (4), BPS users and groups list | Jan Nowak | : | jnowak@gmail.com | \checkmark | 0 85 | | | | Defined - E | xternal User |
| Translation languages | Jack Black | : | jack.black.webcon@gmail.com | ~ | 0 🔠 | | ~ | | Defined - E | xternal User |
| Cache Sector E-mail notifications MailApproval | | | | 6/101 | 0/50 | | 10/10 | 7/11 | | |
| Applications | | | | | | | | | | |
| Data sources | | | | | | | | | | |
| System settings | | | | | | | | | | |
| Plugin packages | | | | | | | | | | |
| | | | | | | | | < 1 2 | 3 4 | 5 |
| Finished | | | | | | | | | Version: 2 | 023.1 |

Licenses can also be edited from the Edit user panel, which is accessed by clicking on the chosen row on the Report.



| Edit user | 占 X |
|--|-----------------|
| Alice Smith Defined - External User | 1 |
| E-mail:* | |
| alice.smith.webcon@gmail.com | |
| Name:* | |
| Alice Smith | |
| BPS ID:* | |
| alice.smith.webcon@gmail.com | |
| Superior: | |
| Tom Green | |
| Licenses: Unlimited Solutions Access Single Solution | |
| + Add | imes Remove all |
| External User Access | |
| 🗸 Designer Desk Access | |
| ✓ Designer Studio Access | |
| Designer Desk permissions: Creating new projects | |
| Publishing to Studio | |

The **Users and licenses** report in the **Admin Panel** on Portal had certain features added (that are not available in the Designer Studio version of this Report). This includes buttons for exporting/importing the licenses template in Excel, as well as the ability to add/remove/edit user data.

| Ache Laer Ache Laer Arrow Luer Arr | nith : | User identifier adorbosz@gmail.com alice.smth.vebcon@gmail.com jaci.black.vebcon@gmail.com | Unlimited Solutions Access | Single Solution Access 이 (동공 이) 또중 | External User Access | Designer Desk Access | D E-mail* | |
|---|--------|--|-------------------------------|--|----------------------|----------------------|------------------------------|----------------|
| Renord Users Alesse Esternal Userse Esternal Userse Integrations Integrations Integration | nith : | alice.smith.webcon@gmail.com | | | | | | . G posses and |
| Enternal User Access Licerise Alice Sr Settlements Jack Ri Installation Jan Kou | sck : | | | 0 EB | | | E-mail." | |
| Settlaments Jack Bi Integrations V Jan Kou | | jack.black.webcon@gmail.com | 173 | | | | alice.smith.webcon@gmail.com | |
| Installation 🗸 🗸 | valski | | h-di | 01.83 | | | Name:* | \$ |
| | | test@test.com | | 0 E3 | | | Alice Smith BPS ID:* | |
| | | | | | | | alice.smith.webcon@gmail.com | |
| Diagnostic sessions | | | 6/101 | 0/50 | | 10/10 | Job title: | |
| Color themes | | | | | | | Phone: | |
| | | | | | | | | |
| | | | | | | | Superior Tom Green | |
| | | | | | | | Licenses: | |
| | | | | | | | Unimited Solutions Access | |
| | | | | | | | + Add | × Remove all |

In the **Settings** tab of a process, there is now an option to toggle the use of **External User Access** and **Single Solution Access** licenses (the latter is only visible for the subscription model).

| - Licensing | | |
|------------------------------|----|-----------------|
| Production process | | |
| External User Access license | | |
| Single Solution license | 20 | Show and assign |
| | | |

For **Single Solution Access** – choose the users that will have access to this process based on this license (the licenses will be subtracted from the Single Solution Access pool for each added user).

For **External User Access** – it is enough to toggle the option, access to workflow instances is granted based on a link being sent to the user's e-mail.

A license is subtracted from the pool when a user with External User Access licensing performs an operation on the form (e.g. path transition, saving the instance, adding an attachment). Such a user can then perform any number of operations on the same instance in the same month.

If a user with External User Access licensing uses a total of 20 licenses in one month, each next operation in the same month will not use further licenses.



5.4. Public access to a workflow instance

Added the ability to share an instance or a task with users outside the company. Sharing is done by generating a link to an instance or a task for any specified email address. An instance can be shared in edit or read-only mode. The functionality allows users with access to an instance to view the status of an instance, edit it, add attachments, etc., and/or execute an assigned task.

Note: the functionality is available in the perpetual and subscription-based licensing model without additional limitations.

WEBCON reserves the right to change that approach. In future, the access to the functionality will require purchasing a dedicated subscription-based license and will not be available in the perpetual licensing model.

New section in process configuration

A new section Sharing is added in the process configuration window in Designer Studio. The section includes a button **Enable task and instance sharing for people outside the organization** that activates the sharing functionality. Selecting the button makes sharing actions available in process global and onstep/on-path automations, as well as action templates. Additionally, after checking the button it is possible to specify the time after which the sharing expires in the **Default sharing expiration time (in days)**.

| | WEBCON Business Process Suite - Designer | Studio – 🗆 × |
|---|--|--|
| Tasks Appearance | | L Łukasz Maciaszkiewicz (webcon \.maciaszkiewicz) |
| Applications | Applications (Alternate row coloring (process) *) | |
| Archiving - parent process Archiving - parent process Archivinacja - proces podrzędny Archiviezcja - proces - proces Kontrahent Archiviezcja - proces | ^o | Use automatic task delegation Uase automatic task delegation Uase automatic task delegation Uase automatic task delegation Case automatic task delegation |
| Applications | Public access Definition of the second sec | Archive Fill in if database has to be other than default Archive database: O |
| System settings | Default sharing expiration time (in days): | Network location: |
| Plugin packages | | |
| - Loaded https://dev18 | webcon.pl/WEBCONBPS Database=JJ_BPS_Content_Main; DBVersion=Main | Version: 2023.1.0.2468 |

New actions

Three new actions that automate sharing management are added to the system. Instances or tasks can be shared with multiple persons by entering e-mail addresses in the action configuration window. A separate link to an instance or a task is generated for each specified e-mail address.

Share workflow instance – the action allows users to share selected workflow instance in the BPS system to read or edit for a specific, defined time (though it is possible to end sharing before that time).

| instance shared with (email addresses): | | f x | Values | :8 | [2] | | |
|---|---------|------------|---------------------|------------|-------------|-----|---|
| | | Ente | r text to search. | | | | |
| | - 0 | Nam | ne | | | | |
| Seperate multiple addresses by semicolon: | | | System fields | | | | |
| ohn.smith@webcon.pl;jane.doe@webcon.pl | | | Form fields | | | | 2 |
| Confirmation email - subject | | | Global constants | | | | |
| | \odot | | Process constant | | | | |
| | | <u> </u> | Context variables | | | | |
| Confirmation email - message: | | - | Context constant | | | | |
| | - · · · | () A | Automation conte | ext varial | Dies | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Privileges level: | | | | | | | |
| Read only / Edit | - | | | | | | |
| Sharing expiration time (in days): | | | | | | | |
| | | | | | | | |
| account + 12 | | Sw | vitch all editors i | nto adva | nced edit m | ode | |
| | | | | | | | |

Share task – the action allows users to generate and share a task directly with a person from outside the company. Once a task is executed, the sharing instance is deactivated. There is no time limit in this case for task sharing.

Stop sharing – the action ends sharing of a specified instance for all users. The action also ends sharing of tasks, yet tasks themselves (depending on their status) remain in the process workflow.

New form button

A new **Share** button is added to a form as an alternative to sharing through actions. The button enables users to share an instance manually directly from the form.

The button (located next to the **Admin** button) allows users to share a respective instance to edit or read-only. You can manage the availability of the button by means of a form rule or field matrix. The button opens a sharing window where you can enter at least one e-mail address of a person who will obtain access to the shared instance. Once all data are filled out, a unique link to an instance is generated. The link can be copied or sent to the specified e-mail address.

| | Share link to SCSR/123/2022 | × |
|---------------------------|-----------------------------|-------|
| Share workflow instance w | rith (email address): | |
| | | |
| ✓ Allow editing | | |
| Expiration date | | |
| 7/8/2022 | | 21 |
| | | |
| | | |
| | | |
| | | |
| | Share | Close |

Note: in all cases (sharing through actions or a form button) sharing the same task again results in overwriting the current sharing and resending e-mail notification. When an instance is shared again, the previous sharing is closed and a new sharing is created. The person receiving the new sharing is informed via a resend e-mail notification.

When sharing an <u>instance</u>, the system checks if there is an <u>active shared task</u> on that instance for all the specified e-mail addresses. If an active shared task already exists for one of the specified e-mail addresses, a message is displayed that informs an instance cannot be shared as there is already an active task shared. For actions, an error is displayed with the same message.



Administrator privileges

When working in administrator mode, the instance administrator can press the Share button to display all users with whom the instance is shared directly on the form. From there, they can modify the sharing settings (such as changing the expiration date or authorizations) and disable sharing if needed.

| > ∷ Applica | tion | | | < ♀ ☆ ☞ 💣 |
|--|---|------------------------------------|-----------------------------|---|
| SZ SZA | ABHTML/2023/03/0 | 00002 | 0 | |
| 5 | Return \otimes Cancel editing $+$ New | 🔚 Save 🛍 Delete 🖒 Refresh | × | E 🗣 🕒 🔁 🛈 |
| Ordering party Address Request date Required delivery | Alima Ul. Poziomkowa 2, 90-670 15/03/2023 15/03/2023 | Task details Request acceptance | → ₩ | flow instance is shared with |
| date Is the address different than the delivery address Delivery address | | ♦ ATTACHMENTS ▷ € |) Add attachment ge here | Workflow: HTML template (workflow) Instance ID 8148 |
| Requested product | ts | Comments | | Steps ✓ Request registration → Request acceptance • Request accepted • Request rejected |
| ID Name | Quantity | Unit price | Sum | Assigned to: |
| 1 Apple MacBook | 2 | 2,050.00 EUR | 4100.00 EUR | ௮, Łukasz Maciaszkiewicz |
| Total Available paths: Accept Reject | | | 4100.00 EUR | Details Author: Łukasz Maciaszkiewicz Creation date: 15/03/2023 |

In addition, the aforementioned information on sharing is available in the admin mode in the workflow instance privileges window. The section also allows administrator to view information on task sharing.

WEBCON[°]

| | | Workflow inst | ance privileges | | × |
|---------------------|-----------------|-------------------------|-----------------|---------------------------------------|----------|
| Global privileges: | | | | | |
| Aleksander Bruks | | Administrator | | | |
| Jacek Język | | Administrator | | | |
| Marcin Kapusta | | Administrator | | | |
| Piotr Pakuła | | Administrator | | | |
| On a process level: | | | | | |
| Łukasz Maciaszkiew | icz | Administrator | | | |
| On instance level: | | | | | |
| Łukasz Maciaszkiew | icz | Modify without deleting | Assignme | ents | \times |
| Workflow instance | is shared with: | | | | |
| łukasz.maciaszkiewi | cz@webcon.com | Modify without deleting | Shared by | y Łukasz Maciaszkiewicz on 16/02/2023 | \times |
| Add access privile | je: | | | | |
| | | | ✓ = | Read-only | \sim |
| | | | | 1 | + Add |
| | | | | | Close |

On-path transition

On-path transition or task execution ends sharing of a respective task for each user. This sharing is then recorded in the historical data table of the content database, and a new instance sharing is generated with read-only privileges and a 1-year expiration period for all respective users.

Similarly, transiting a path in the case of instances shared with edition rights ends such sharing. A respective entry in the historical data table is then made, and the instance is shared with read-only rights and the same expiration period for the same users.

Archiving

When a shared instance is archived or deleted, the sharing is ended and a historical record is created in the **HistorySharedInstances** table in the content database. The relevant entry is also deleted from the **SharedInstances** table which contains information about shared instances.

New context variables

New elements are added to the business rule editor. A new expression: Is instance shared? is added to the Information group in the System fields node. In addition, a new group: Form display modes is added to the Context variables node. The group includes a new expression: Is share mode active? and two expressions taken from other groups, i.e. Is admin mode active? and Is this a mobile device?



5.5. GUID as an identifier in HTML templates

The latest version of WEBCON BPS now allows for the use of the **GUID** identifier in HTML template tags. The change allows for easy transferring of HTML templates between different environments (DEV/TEST/PROD) which are used, .e.g. in **Generate a PDF file**, **Generate an HTML printout**, or **Send a custom e-mail** actions.

Functionality description

The GUID is an identifier of a configuration element, such as a form field, workflow, or process, whose value remains constant irrespective of the type of environment. So far, the GUID identifier could be used only for the **data row** form field. The new WEBCON BPS version provides this possibility also for the **item list** and **data table** form fields whose inclusion in HTML template required dedicated tags and reference to the ID identifier.

The new method of identifying form fields in an HTML template does not replace the old one, but offers an alternative to it, thus ensuring compatibility with earlier system versions.

Changes to the use of the GUID identifier for listed form fields have been incorporated into actions that utilize HTML templates, i.e.

- Generate a PDF file,
- Generate an HTML printout,
- Send a custom e-mail.

In addition, the changes also apply to HTML templates generated by administrator actions in Portal.

| > 🔡 Choose | e application | | Search everywhere | | Q 🗘 🗘 |
|---|--|--------------------------------------|---------------------------|---|--|
| All my tasks | 907 | LMREQ/2023/01/00002 | | | |
| | 205 0 | 🛞 Cancel editing 🕂 New 📓 Save 📋 Dele | te 🕐 Refresh 🔍 Delega | ate 💿 🛞 🗸 | 0 2 2 0 |
| New | My CC | Task details | | Privileges | Iformation |
| LM LMREQ/2023/01 | | Approved | | $R_{\!$ | Process: Requisiton process |
| Instance number Form type | LMREQ/2023/01/00002 Requisition form | | | Timeouts execution statistics | Form type: Requisition form |
| Step Created by | Approved Łukasz Maciaszkiewicz | Title | Title | Word template printout | Workflow: Requisition workflow |
| Modification date and time Modified by | 20/01/2023 09:08 Łukasz Maciaszkiewicz | Category picker | < None > | HTML Template | istance ID |
| LM LMREQ/2023/01 | 1/00003 5 hours ago | Description | asfasf | Word template | 8088 |
| Instance number Form type Step Created by Modification date and time Modified by | LMREQ/2023/01/00003 Regulsition form Approved Łuksz: Maciaszkiewicz 20/01/023 09:08 Łuksz: Maciaszkiewicz | Registration date | 06/01/2023 | | Steps Registration Manager Appoval Financial Approval Rejected |
| LM LMREQ/2023/01 | 1/00005 5 hours ago | Registering person | | | → Approved Assigned to: |
| Instance number Form type | LMREQ/2023/01/00005 Reguisition form | Total value | | | 尽 Łukasz Maciaszkiewicz |
| Step Created by Modification date and time Modified by | Approved Łukasz Maciaszkiewicz 20/01/2023 09:08 Łukasz Maciaszkiewicz | ATTACHMENTS | | | Details Author: Łukasz Maciaszkiewicz Creation date: |
| LM LMREQ/2023/01 | 1/00004 3 days ago | | drop attachments or paste | e image here | 17/01/2023 Modified by: |
| Instance number Form type Step Created by Modification date and time Modified by | LMREQ/2023/01/00004 Requisition form Approved Łukasz Maciaszkiewicz 17/01/2023 1424 Łukasz Maciaszkiewicz | Comments | | | Lukasz Maciaszkiewicz Modification date: 20/01/2023 Version: 4 |

5.6. "Send As" for Microsoft Graph

It is now possible in WEBCON BPS to use the "Send As" option when sending emails via Exchange Online – Microsoft Graph.

The **Configuration of sending e-mails** window, available under System settings \rightarrow Global parameters \rightarrow E-mail notifications, has been updated to include the checkbox **Allow "Send As".** When this box is checked, the system verifies whether the **Sender** parameter is entered for all e-mail actions and templates.

| Tasks Appearance | | WEBCON B | usiness Process Suite - Designer Studio | - 0 | × |
|---|------------|--|---|---------------|-------------|
| Tasks Appearance System settings ⊕ 𝒯 Global constants | © | System sett | INGS (Configuration of sending e-mails) | PRODUCTION C: | Ð |
| ○ ● Business rules ○ ● Form rules △ Automations ○ ● ● △ Automations ② ● ● ③ ● ● ③ ● ● ○ ● ● ● ● ● < | | Save E-mail settings Frant ID: Application ID: Client Secret: Default sender account: | Exchange Online - Microsoft Graph Ses1bis15-02e0-48a0-b915-0cb98e3cc02 48076635-40b2-4d77-bf21-a6ba ise=4e7ab | | D D D |
| Gonfiguration of sending e-mails 용 Global e-mail template ④ 호텔 Mass notification 달 Administrative notifications | - | – E-mail message sig Default certificate: | Not selected | ~ © (| D |
| Applications | | Deployment mode Redrect all e-mail no E-mail receiver: | tifications Jacek Jezyk Admin < , jezyk⊕webcon.pl> | | D |
| Data sources | | | | | |
| System settings | | | | | |
| Plugin packages | | | | | |
| Finished | - <u>1</u> | | | | : |

In addition, after pressing **Show usages**, the system displays a preview of places where a custom sender address has been entered.

| • | You are enabling sending e-mails from non-default accounts in process accounts require relevant authorizations (see the description under the | |
|------------|--|----------------|
| | | Hide usages OK |
| <u>ی</u> د | Invoices - Application (1120) | |
| Q | 🔁 Change Request Process (1198) | |
| | S S Workflows | |
| | S S Change Request Workflow (1219) | |
| | (a) 📼 Steps | |
| | Execution Started (1653) | |
| | E-mail (323) | |

If the box **Allow "Send As"** is unchecked, then e-mails will be sent from the **Default sender account** according to the global system configuration.



Administrative notifications

Changes also affected the organization of the **Administrative notifications** configuration window. The **Sender address** parameter has been moved to the **Use standard outbox settings** group, and its availability depends on the state of the checkbox next to the group name – if the box is unchecked, it will not be possible to provide an additional sender address.

| Tasks Appearance | | WEBCON Bu | siness Pro | cess Suite - Designer Studio | | | - 🗆 × |
|--|--|--|---------------------|---|--------|------------------|-------|
| System settings | | System setti | ngs _{(Adm} | nistrative notifications) | PRO | | CĐ |
| → Business rules → A Form rules | | Save | | | | | |
| Automations ③ (G) clobal Fields ② (G) clobal Fields ③ (G) clobal privileges ③ (G) clobal privileges ④ (G) clobal privileges and groups ist ⑤ (G) clobal privileges ④ (G) clobal privileges ④ (G) clobal cristications ⑤ (G) clobal cristications ⑥ (G) clobal cristications ⑧ (G) clobal erral inclipitate | The second s | – Administrative notifi Notification receiver e-mai Range: | | ®webcon.pl HotPolder HotPolder Servic farm nufime OCR Engine Ø User ist synchronization | | | |
| ⊘ | - | | | | | | |
| Applications | | Use standard outbox s | settings | | | | |
| Data sources | | Use custom outbox se Server type: | - | ine - Microsoft Graph | | | • |
| System settings | | Tenant ID: Application ID: | | | | | 0 |
| Plugin packages | | Client Secret: Account: | | | | | 0 |
| Finished | g - | | | | 12 | Send test e-mail | |



5.7. Assigning tasks to a group of users

Added a new functionality that allows tasks to be assigned to groups as a whole, rather than to each individual member of the group.

So far, in the case of groups tasks were assigned directly to each group member. In this approach, the task remained active until its execution (or ending by an administrator), so a user assigned with the task could execute it even after leaving the group (e.g. after transiting to a different department). The new functionality enables the system to react dynamically to changes in the group membership. For example, if a user is no longer a member of a group, they will not be able to perform tasks that had been assigned to the group. This principle also applies the other way around, i.e. when a new person joins a group, they are able to access the tasks assigned to it. When a task is assigned to a group, it is marked as completed as soon as any member of the group performs it. Information about the person who performed the task is stored in the historical data.

Note: the system migration to the new version does not cause changes to the configuration of assigning tasks in the existing processes. This means that, although after the update assigning tasks to groups as such is a new, default approach, the tasks in the existing processes will still be assigned in accordance with the old approach, i.e. directly to each group member.

Tasks assigned to groups are presented in reports with **SearchIndex** or **SQL** source.

Changes in the process Settings tab

A new button **Assign tasks for groups directly to group members** is added to the process Settings tab. Checking the aforementioned button results in assigning tasks for groups directly to their members, i.e. the system operates according to the procedure that was standard prior to the introduction of the discussed functionality. As a consequence, a task assigned to a group member stays active until its execution, even if such a member leaves the group. Apart from the substitutions with automatic task delegation functionality, selecting the above-mentioned option modifies all fields in the process configuration where rules for creating and assigning tasks to users are defined.

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| General 26 User privileges 20 GDPR settings | | Compact view 🥂 🖉 Usages 🛛 👺 AI rules |
|---|---------|--|
| Attachments | | Substitutions |
| Attachment database: JJ_BPS_Content_Main_Att | \odot | Allow to work on behalf of another user (i) |
| Add attachment content to SOLR search index | (j) | Use automatic task delegation |
| Maximum size of the attachment file for a process | мв 🚺 | \checkmark Task remains accessible to substitute after substitution ends |
| | | Keep notifying substitute with standard emails |
| – Miscellaneous | | Notify substitute of tasks assigned before substitution started |
| Include in AI analysis | | Business entities structure |
| Disable "On timeout" type actions | | |
| Mode: All days of the week | - | Structure source: <use global="" setting=""></use> |
| Process modified by export-import mechanism | (j) | – Data sources and constants – |
| Assign tasks for groups directly to group members | (j) | Environment: Auto 👻 |
| _ Sharing | | Archive |
| ✓ Enable instance and task sharing | (j) | Fill in if database has to be other than default |
| Privileges level: Read only | • | Archive database: JJ_BPS_Content_Main_Arch 💮 🛈 |
| Default sharing expiration time (in days): | | Network location: |
| 30 | \odot | Attachment archiving mode: Only the newest attachments version |
| | | |
| | | - Licensing |
| | | Production process |
| | | Single Solution license Show and assign |
| | | |
| | | |
| L | | |

New business rule: GROUP MEMBERS

A new business rule **GROUP MEMBERS** is added. The rule returns a collection of users who are members of the intended group based on the BPS_ID identifier. The rule lets you choose all group members, including embedded groups.

| eturned value type: Text | | ∎ ∫x | Values | 88 | |
|--------------------------|-----|------------|------------------------|------------|--|
| | Ent | er text t | o search | | |
| GROUP MEMBERS | Nar | me | | | |
| | | System | | | |
| | | Form fie | | | |
| | | Global co | | | |
| | | | constants variables | | |
| | | Context | variables | | |
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| | | | | | |
| | | Switch all | editors into adv | anced mode | |

Changes in Portal

Tasks assigned to groups are reflected in the **My tasks** list and task counters presented to the user. If a user is a member of a group assigned a task, the task will appear both in the task counters and in the user's My Tasks list.

New version introduces changes to the form appearance related to assigning tasks to groups. The form displays name of the group to which a task is assigned. The name can be additionally put in bold if the current user belongs to the group. Below such name there are indented names of users who executed tasks. Additionally, if the current user executed the task, their name is put in bold.

| > 🏭 Applicatio | on | | | Q Q 🕁 🔽 蒙 |
|--|---|---|------------------------------|--|
| SZ SZAB | HTML/2023/02/00015 | | | |
| Edit | + New 🕐 Refresh | | | () () |
| Ordering party Address Request date Required delivery date Is the address different than the delivery address Delivery address | Tatra Ul. Krupnicza 2, 45-600 Warszawa 07/02/2023 08/02/2023 | Task details Acceptacja zapotrzebowania ATACHMENTS ATTACHMENTS Comments | | Information Process: HTML templates Form type: HTML templates (form) Workflow: HTML templates (workflow) Instance ID 8133 Steps ✓ Request registration → Request acceptance • Request acceptance • Request acceptance |
| | | 🔛 Save comment | | |
| Requested products | | | | Assigned to: «• WEBCON - Dział |
| ID Name | Quantity | Unit price | Sum | Dokumentacji |
| 1 Computer Total | 5 | 2,899.00 PLN | 14495.00 PLN 14495.00 PLN | A, Bartłomiej Ciernia |
| | | | | Details Author: Łukasz Maciaszkiewicz Creation date: |

Archive

Information on assigning a task to a group is now added to instances stored in the archive. The system also displays information on execution of such a task by a group member.



5.8. Export and import of translations to/from MS Excel file

New options have been introduced to export translated names of application elements, created by the person responsible for configuring the application, and then to import the completed translation document into the system. Translations can be imported/exported within one environment and one main version of WEBCON BPS.

WEBCON BPS Designer Studio

To export a translation file in Designer Studio, right-click on a process and select **Export translations** from the context menu.

| Getting started | | | |
|---|----|---------------------------|------------|
| (a) 😵 Webinars | | | |
| ③ 월 Webinars process ③ S Workflows | °⊕ | Create new process | • |
| Form fields | V | Create relation | |
| Image: Second state Image: Second state< | ٦ | Check out for edit | |
| | S | Refresh | F5 |
| | 圃 | Delete C | trl+Delete |
| | ÷ | Clone | Ctrl+L |
| | 9 | History of changes | Ctrl+H |
| | F | Generate documentation | Ctrl+D |
| | Ð | Used connections | |
| | 8 | Used data sources | |
| | Q | Verify process | Ctrl+W |
| | C. | Export configuration | Ctrl+E |
| | C. | Export translations | |
| | C, | Import translations | |
| | Þ | Start workflow in process | |
| | | | |

After a while, a window will appear where you can indicate the **Content language** and the destination for downloading the .xlsx file with translations.

| Translations ex | cport | × |
|-------------------|--|---------|
| Content language: | de-DE 🔹 | |
| Save path: | C:\Users\k.gawryal\Documents\Webinars process_de-DE.xls> | \odot |
| | Save file 🔀 Cancel | |

The export covers translations for the selected process and the presentation layer of the application to which the process belongs.

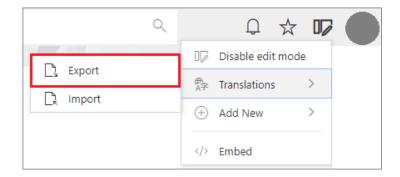
Once the translations have been successfully exported, you can edit the downloaded file and add missing translations to it. **Changes should only be made in the target language column**, e.g. "de-DE". **Changing data in other columns may prevent the import of translations into the system.**

To import a file with translations, select **Import translations** from the process context menu, indicate the location of the MS Excel file, and click **Load**. A message will then be displayed that the translations have been successfully imported. If you click on the dedicated control next to the item for which the translation was entered in the Excel spreadsheet, you can see that the translation has been correctly added in the system.

| Original text | Save | |
|---------------|-------------|--|
| Language | Translation | |
| en-US | Save | |
| 🗄 de-DE | Speichern | |
| 🗄 uk-UA | | |
| ⊞ fr-FR | | |
| ⊞ it-IT | | |
| ⊞ ru-RU | | |
| | | |
| | | |

WEBCON BPS Portal

Administrator of an application can also export its translations from Portal. This can be done by clicking on the icon right next to the profile picture and selecting **Translations** and then **Export** from the drop-down menu.





The **Translations** window will then appear, and after confirming the export, an .xlsx file with translations will be saved to the default location on disk.

| | Export translations | |
|---------------------------|---------------------|---|
| Language: | de-DE | ~ |
| Process: | Webinars process | ~ |
| Translations exported suc | cessfully | |

You can import the file with completed translations by selecting **Translations** \rightarrow **Import** from the menu and choosing the relevant MS Excel document.

| Import translations | × |
|---|-------|
| Choose File Webinars process_de-DE.xlsx | |
| Import | Close |

After successfully importing the file and changing the language of Portal, you can see that the item names have been changed according to the translations you entered.

| Nächste Schritte: | |
|-------------------|--|
| Benachrichtigen | |



5.9. Privileges to manage BPS groups

WEBCON BPS has been enhanced with a new mechanism that allows users with no global administrator privileges to manage BPS groups. Expanding the system with additional roles of **BPS groups administrator** and **BPS group owner** constitutes a significant change in this regard.

BPS groups administrator

This privilege is granted to individual users by the system administrator. BPS group administrators can be added by selecting **System settings** \rightarrow **Global parameters** \rightarrow **BPS users and groups list** and opening the **BPS groups** tab in WEBCON BPS Designer Desk.

| (↓) ≛ ≗ | WEBCON Business F | Process Suite - Desig | jner Studio | | _ 🗆 × |
|--|---|--|------------------------------------|--|--|
| Tasks Appearance | | | | L Tom Green (tom.green.webco | n@gmail.com) |
| System settings | System settings (B | PS users and groups list) | | PRODUCTION | C . |
| ● 75 Global constants ▲ ● 85 Business rules ● ● 85 Business rules ● ● 85 Global model ● ● 85 Global parameters ● ● 9 Global parameters ● ● 9 Global parameters ● ● 9 Global parameters ● ● 7 Attochments ● ● 10 ababase ● Security ● ● 50 users and groups synchronization ● ● 10 and paral groups ● ● ● 10 and insignages ● ● ● 10 an inotifications ● ● ● 10 an inotifications ● ● | Getern Sectorings (B Getern Get | Ps users and groups lst) Synchronized Name B28 Company Sales team Support team | Source BPS BPS BPS BPS | Last update date 12/7/2020 12:01:41 PM 5/6/2021 11:38:48 AM 8/27/2021 11:20:08 AM | Q ⊕ ⊕ ⊕ |
| Applications | | | | | |
| ₩ | BPS groups admin: | | | | |
| System settings | BPS ID alice.smith.webcon@gmail.com | | Name Alice Smith | | ^ (+) |
| Plugin packages | | | | | ☺ |
| Finished | | | | | : |

A user who has been granted that privilege can freely manage BPS groups from WEBCON BPS Portal. This is possible by going to the **Admin Panel** and selecting the node **User management** \rightarrow **BPS groups**.

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| WEBCON | < | | | 8 |
|--|--------------|---|-------------------------|----------|
| g^{Q} Users management | ^ | BPS groups | | |
| ^ቋ ጽ ^ቋ BPS groups | | DF 5 groups | | |
| | | + Add 🕐 Refresh 🛛 🛛 BPS group administr | ators | √ Filter |
| g ^A Users and licenses | \checkmark | Display name | ↑ Group identifier | |
| {} Integrations | \sim | B2B Company | b2bcompany@external.com | |
| ,↓. Installation | \sim | | | |
| | | Sales team | sales@webcon.com | |
| Diagnostic sessions | | Support team | suppotr@webcon.com | |
| Color themes | | | | |
| Diagnostic sessions | ~ | Sales team | sales@webcon.com | |

BPS group administrator can add, delete, and edit new/existing groups. All they need to do is click on the desired group or select the **Add** button from the top menu.

| Edit <u>c</u> | group | -⇔ X |
|------------------|--------------------------|---------|
| ST Sales to | | |
| 31 | P_{\odot} Delete group | ₽⁄ Edit |
| Account: | | |
| Name:* | | |
| Sales team | | |
| BPS ID:* | | |
| sales@webcon.com | | |
| | | |
| Group members: | | |
| Joanna Brodzik | | |
| | | |

Only system administrators can view BPS groups administrators via the dedicated control in the top menu. They can also add new BPS groups administrators from here.

| | BPS group administrators | × |
|----------------------|--------------------------|------|
| Alice Smith + Add | X | |
| | Apply Car | ncel |

Any changes in this regard are directly visible in WEBCON BPS Designer Studio after the synchronization and refreshing the window.

BPS group owner

In the context of a BPS group, the ability to define not only its administrator, but also owner has been added. The group owner can edit the group (e.g. rename it), add and delete its members, add more owners, but – unlike the administrator – they cannot create or delete groups.

Group owner configuration is available from the aforementioned **BPS groups** tab in WEBCON BPS Designer Studio. Any system user can be granted this privilege.

| Group identifier (BPS ID) | | |
|---------------------------|---------------------------------------|----------|
| Display name | | |
| Users | A | 2. 2. |
| Group owners | · · · · · · · · · · · · · · · · · · · | 2. 2. |
| | ~ | |

BPS group owner can also be defined by system administrator or BPS group administrator from Portal. This configuration is available by following the path: **Administration** \rightarrow **User management** \rightarrow **BPS groups**. The Group owner will be the person indicated in the corresponding section of the **Edit group** window.

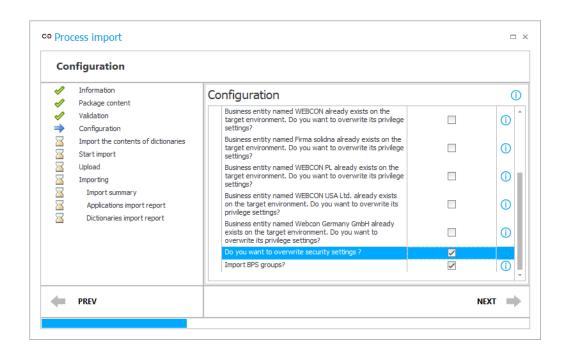
| Edi | t group | ₽ X |
|-----------------------|---------|----------|
| ST Sales | team | ₽ Save |
| Account: Name:* | | |
| Sales team | | |
| BPS ID:* | | |
| sales@webcon.com | | |
| Group members: | | |
| Joanna Brodzik | | \times |
| + Add | | |
| Group owner: + Add | | |
| | | |

Exporting/Importing BPS group owners

One of the new features is the possibility of exporting and importing **BPS group** owners.

If a BPS group has certain privileges to a process, and such a process is exported and subsequently imported into the target environment, information about the BPS group, including its **Owner**, will also be transferred.

For this to happen, the following two boxes must be checked in the dedicated wizard: **Do you want to overwrite security settings?** and **Import BPS groups?**.



Once the process has been correctly imported in the target environment, the imported group will appear in WEBCON BPS Portal under Admin Panel \rightarrow Users management \rightarrow BPS groups, along with information about its Owner.

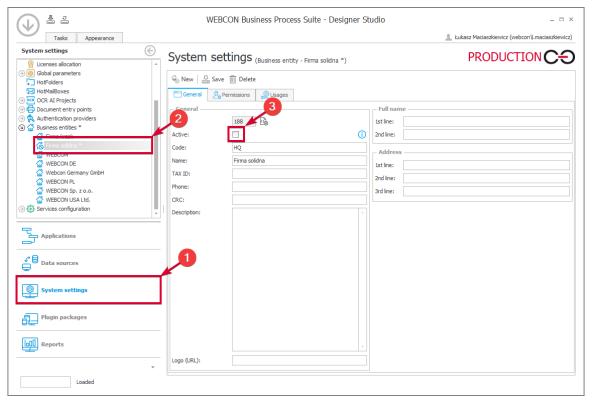
| WEBCON | < | | 6 |
|-------------------------------------|--------|--|-------------------------------------|
| \mathfrak{A}^{R} Users management | ^ | BPS groups | Edit group -¤ × |
| ትኋ⁴ BPS groups | | + Add () Refresh () BPS group administ | Jales Debai thent |
| g ^R Users and licenses | ~ | Display name | SD & Delete group & Edit |
| {} Integrations | \sim | B2B Company | Account: |
| | Ť | Sales team | Name:* Sales Department |
| Color themes | | Sales Department | BPS ID:* salesdepartment@webcon.com |
| | | Support team | Group owner: |
| | | | Tom Green |

Note: information about **BPS group members** is not imported into the target environment, even if these members were previously defined.

5.10. Setting business entities inactive

The WEBCON BPS 2023 version introduces deactivation of business entities with registered instances in the system. Following deactivation of an entity in the **Designer Studio** or **Portal** configuration, the entity is no longer shown in suggestions, including in the expression editor. This means that e.g. it is not possible to start a new workflow for such an entity.

You can deactivate an entity in Designer Studio by unchecking the "Active" checkbox (the **System settings** section \rightarrow the **Business entities** item in the selection tree \rightarrow business entity name \rightarrow the **Active** checkbox). This also entails changing the icon of the business entity in the selection tree.



A table grouping information on entities is added to the "Business entities" node (the **System settings** section \rightarrow the **Business entities** item). The table also includes the **Active** column informing whether an entity is active or not.



| Drag | Drag a column header here to group by that column | | | | | | | |
|---------|---|---------------------|------------|---------------|-----|--------------|--|--|
| | ID 🔺 | Name | Code | TAX ID | CRC | Active | | |
| | | | | | | | | |
| | 17 | WEBCON DE | HQ | | | ~ | | |
| | 94 | WEBCON | HQ | | | \checkmark | | |
| 6 | 188 | Firma solidna * | HQ | | | | | |
| | 189 | WEBCON PL | HQ | | | 1 | | |
| | 190 | WEBCON USA Ltd. | WEBCON USA | | | 1 | | |
| | 191 | Webcon Germany GmbH | WEBCON DE | 676-001-65-53 | | 1 | | |

Information on deactivation is transmitted via the import-export mechanism.

5.11. Changing the width of Item list and Data table columns

Users can now dynamically change the width of **Item list** and **Data table** columns. To do so for a selected column, place the mouse cursor on the right side of its header – a vertical dash will appear there, which can be dragged to the left or right, decreasing or increasing, respectively, the column width.

| Invo | oice items * | | | | | | | |
|-------|-----------------|---------------|-----|-------|------------|---------|--------------|-----|
| ID | Product/Service | Quantity Unit | ÷ • | Price | Net amount | VAT | Gross amount | |
| 1 | | | | PLN | 0.00 PLN | 23.00 % | 0.00 PLN | j 🖉 |
| Total | | | | | 0.00 PLN | | 0.00 PLN | |
| +/ | Add | | | | | | | |

Changing the width of the selected column affects the width of all columns to the right of it – they are proportionally narrowed or widened. The width of the remaining columns (on the left) is effectively blocked, i.e. it is fixed.

If the change in width is significant and there is not enough space on the form, a horizontal scroll bar appears below Item list or Data table.

| Invo | pice items | | | | | |
|-------|-------------------|---------------|------------|------------|---------|--------------|
| ID | Product/Service | Quantity Unit | Price | Net amount | VAT | Gross amount |
| 1 | Cleaning services | 4 hour | 200.00 PLN | 800.00 PLN | 23.00 % | 984.00 PLN |
| Total | | | | 800.00 PLN | | 984.00 PLN |
| | | | | | | |

This feature is only available for non-mobile devices and works in both edit and read-only modes, but width changes made are not saved and reset when the form or browser window is refreshed.



5.12. Global Automations

Added the ability to create **Automations** in the **System settings** that can be used in multiple processes.

| الله الله الله الله الله الله الله الله | WEBCON Business Process Suite - Designer Studio | _ 🗆 X |
|---|---|--------|
| System settings (C) (c) The Global constants (c) Ele Business rules | System settings ([Glob Auto] Launch Returns Workflow) PRODUCTION | СЭ |
| ③ ② Form rules ④ 凡 Automations 凡 ③ [clob Auta] Launch Returns Workflow ④ 逊 Global fields | Image: Seneral Control banding Senera | |
| | ID: 454 Image: [Glob Auto] Launch Returns Workflow Image: [Glob Auto] Launch Returns Workflow Image: [Glob Auto] Launch Returns / Complaints proc * [Image: MAIL Recipient Description: Series of actions to start the Returns/Complaints proc * [Image: Mail Recipient] MAIL Title | ⊕ ⊕ |
| Cesigner Desk Permissions Cesigner Desk Permis | Definition | |
| Reverse and groups synchronization BPS users and groups list Translation languages Translation languages Translation languages | Cutput parameters: (P) Start a subworkflow | ÷ |
| Cache Cache Cache MalApproval Proxy | | ⊖ |
| Working days calendar ValueColder Applications | C ^(U) → Invoke REST Web service | |
| → Data sources | Send a custom email | ⊕ |
| System settings | ● End Q Q II | Θ |
| Plugin packages | Execution time limit: 30 + | |
| Saving completed | Version: 2023.1 | .# |

From the process configuration level, the global Automation configuration cannot be modified. However, automation parameters can be used to map specific values from the process (e.g. values of form fields) to parameters used by actions of the automation.

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|--------------|-------------------|--|--|
| Report Issue | | | |
| | | | - |
| | | | |
| | Start | | ^ |
| | | Ļ | |
| | Glob Auto] Launch | · · · · · · · · · · · · · · · · · · · | |
| | Claimant: | Input Current user Name | |
| | REST Col.: | _Tech Database field name | |
| | MAIL Recipient: | Directly Logins separated by semicolon | |
| | MAIL Title: | Title Database field name | |
| | MAIL Body: | Description Value | |
| | Instance number: | Output Details (text) | |
| | _ | Ļ | |
| | J⊖ Move wor | rkflow (SQL) | |
| | | ↓ . | |
| | Send a cu | istom email | |
| | End | ÷ | ©, ©, 11 |
| | | Report Issue | Report Issue Imple [Glob Auto] Launch Returns Workflow Input Claimant: Current user Name MAIL Recipient: Directly MAIL Recipient: Directly MAIL Title: Title Database field name MAIL Body: Description MAIL Body: Details Tige Move workflow (SQL) Imple Imple Imple Mail Body: Details Imple Imple |

The global automation cannot use process constants/rules.

The **Change items list values** action is unavailable.

The For each operator may not refer to item lists.



5.13. Containerization of WEBCON BPS

The latest release comes with an option to containerize selected WEBCON BPS components. With the new feature, it is possible to prepare images and create **isolated runtime environments** (containers) for the integral parts of WEBCON BPS: Portal, Search Server (Solr), and Workflow Service.

Containerization is an alternative to the standard installation of WEBCON BPS, where independent containers are created for each of the three system components. As a result, users will be able to operate the system on any infrastructure.

Containerized Portal

The introduced feature allows to prepare WEBCON BPS Portal images and then run them in a dedicated container. The solution is performance-driven and is particularly applicable when using cloud services that have ready-made mechanisms to support containerization.

Creating a locally running instance of Portal images reduces the amount of resources used, making it "lighter" comparing to multiple hosts or multiple virtual machines. The advantage in this case is the **increased scalability of the system** – the container will act as an additional node taking over some of the load that previously rested only on the host machine. If the load is smaller, the number of Portal containers used can be limited.

| ocker Desktop Update to latest | Q Search | | Ctrl+K | Ŭ | • | Sign in 🙎 | - | |
|--|---|--|---------------------------|-----------------|------------|-----------|----------|----------|
| Containers | Containers Give feedback G A container packages up code and its dependencies so | the application runs quickly and reliably from | one computing environment | to another. | Learn more | l | | |
| Volumes Dev Environments BETA | Only show running containers | | | Q | Search | | | : |
| xtensions | Name | Image | Status Port(s | | Started | Actio | ns | |
| Add Extensions | D Des c3794a41d5bb (" | webcon.bps/dotnet/aspnet.v2 | Running 48441 | <u>:48441</u> Ø | 4 seco | nds age | | Ŧ |
| | | | | | | Sł | nowing 1 | items |
| ۵ | 🕷 Not connected to Hub | | | | | | () v | 4.16.3 🤇 |

Preview of a running WEBCON BPS Portal container in Docker Desktop

Containerized Solr

A similar containerization mechanism has been provided for the Apache Solr search platform – user downloads the image and runs it in a container. For Solr, the official image is available in the Linux version.

When it comes to index storage, containerization affects only the engine of the Solr database on which WEBCON BPS is based, and in principle, container is a non-persistent object. Therefore, it is important to ensure that data is not lost when the container is disabled. In Docker, this is ensured by the Docker Volume component that allows to create dedicated volumes responsible for storing data generated and used by Docker. Using this solution to store index files guarantees the correct operation of Solr in the created container.

| ocker Desktop Upgrade plan | Q Search | | Ctrl+K | 🗯 🏟 🛛 Sign in 🥹 | - 🗆 |
|--|---|-----------------------------------|---|-------------------------------------|-----------------|
| Containers | Containers Give feedback Q A container packages up code and its depender | cies so the application runs quic | kly and reliably from one computing environ | iment to another. <u>Learn more</u> | |
| Volumes Dev Environments BETA | Only show running containers | | | Q Search | : |
| xtensions | Name | Image | Status Port(s) | Started Ac | lions |
| Add Extensions | □ my_solr 721a919e6224 □ | mysolr | Running <u>8983:89</u> | 83 🗹 36 seconds aç 🔳 | : |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | Showing 1 items |
| ۵. | RAM 4.41 GB CPU 0.84% 🐧 Not connected to | Hub | | | v4.16.3 |

Preview of a running SOLR container in Docker Desktop

Containerized Workflow Service

The containerization process has also been extended to WEBCON BPS Workflow Service, with the option to indicate configuration data. Using the appropriate parameters, users create an image of the service, build a container, and run it, so the installer stage can be skipped. This solution enables efficient handling of network traffic – it can be used in conditions of increased demand for resources. The number of service containers created depends on user preferences and the number of system licenses held.

However, note that Workflow Service in a container works only on the basis of communication with Portal, through a dedicated certificate.

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| Docker Desktop Update to latest | Q Search | Ctrl+K | | • • | Sign in | 9 | _ | |
|--|--|---|--------------------|-----------------------|-------------|---------|---|---|
| Containers | Containers Give feedback Pa A container packages up code and its dependencies | so the application runs quickly and reliably from one computing | environment to and | other. <u>Learn n</u> | <u>tore</u> | | | |
| Volumes Dev Environments BETA | Only show running containers | | | Q Sear | ch | | | : |
| extensions | Name | Image Status | Port(s) | Star | ted | Actions | | |
| Add Extensions | □ 💿 service 1dfdff529f83 [͡ŋ | webcon.bps/windows/servercore:: Running | | 0 se | econds ago | | | Ĩ |
| | | | | | | | | |

Preview of a running Workflow Service container in Docker Desktop

All containers are isolated from each other, but they can communicate, as each of them constitutes an integral part of one system. Additionally, depending on users' needs, it is possible to containerize only selected elements of the platform in any combination.

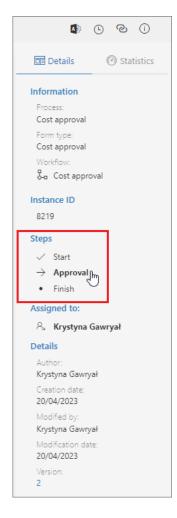
Note: work with WEBCON BPS elements in containers is possible only for users with subscription licenses. Starting another container will involve the use of another license. If the container has been properly disabled, the license is released. A report on the licenses used is available in WEBCON BPS Designer Studio. Note also that external authentication provider, such as Azure Active Directory or OpenID Connect, is required as Windows authentication provider is not working in containers.

Detailed information on how to create images and containers of individual WEBCON BPS components can be found on our technical blog.



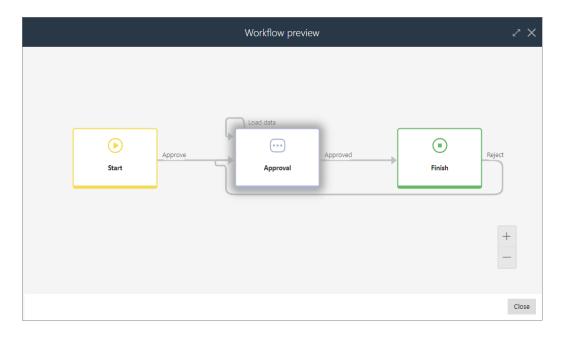
5.14. Workflow preview from the Information panel

Introduced the ability to preview the workflow diagram from the **Information panel**. By clicking on the name of a selected step, user working with a form can now check the layout of workflow steps and paths.



A window is then displayed with a preview of the workflow which can be scaled and moved as desired using the available buttons.

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The current step of the workflow is additionally highlighted on the preview.

The functionality is available in Portal after checking the appropriate boxes of the new option **Workflow diagram preview** in the **Standard areas** tab of the **Field matrix** in WEBCON BPS Designer Studio.

| 🔲 Glol | bal form templat | e 👫 Field | matrix 🔤 B | ehavior | | | | |
|----------------|------------------|---------------|-------------|--------------|----------------|----------|--------------|--------|
| orm typ | pe filter: | All | | | | | | |
| ilter bv | form field name | | | | | | | |
| | | | | | | 7 | | |
| To To | p panel | Left panel | Right panel | Bottom panel | Standard areas | | | |
| | Areas | | 0 | Start | - | Approve | 0 | Finish |
|) Are | as | | | | | | | |
| (\mathbf{e}) | Status panel | | √ | | 1 | | | |
| | Information | | 1 | | ⊻ | | ⊻ | |
| | Element ID | | ⊻ | | ⊻ | | V | |
| | Steps 🗹 | | V | | ⊻ | V | | |
| | Details | | ≤ | | ✓ | v | | |
| | | √ | | √ | V | | | |
| | Parent insta | nce | ⊻ | | ⊻ | | \checkmark | |
| | Subworkflow | IS | ✓ | | ⊻ | | \checkmark | |
| | Process sup | ervisor | ✓ | | ⊻ | | \checkmark | |
| | User manua | | √ | | ⊻ | | ⊻ | |
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| Forr | | | | | | | | |
| - | New | | √ | | ⊻ | | ⊻ | |
| - | Save | | V | | | | | |
| | Delete | | | | ⊠ | | | |
| - | Refresh | | ≤ | | ⊠ | | ⊻ | |
| - | Path list | | | | | | | |
| | Delegate | | | | | | | |

If the form is in a step for which the availability of a workflow preview has not been selected on the Field matrix, this preview will not be available for any of the steps in that workflow.

5.15. Azure Microsoft Graph – GCCH support

WEBCON BPS can now be integrated with the Government Community Cloud High (GCCH) environment of the Azure AD for US Government national cloud.

The **Global parameters** node in the **System settings** has therefore gained a new section that allows for selecting the supported **Cloud type**, and thus the associated **Microsoft Graph API** parameters of standard system functionalities that use connections to Azure Microsoft Graph.

| System settings (Global parameters) | PRODUCTION CO |
|---|--|
| Save | |
| Environment settings | Business entities structure Default business entities structure: Active Directory |
| Environment unlocked, full ability to edit | Default business endues structure: Active Directory |
| Installation type: SharepointModern | Applications IDs in external systems |
| _ Substitutions | Google API key: |
| Substitutions enabled | Power BI e05f6234-3f5d-4369-8e3b-f3b23e2485 |
| Time mode: Date (days) | Microsoft Graph API |
| $\mathcal{B}_{\mathcal{C}}^{\mathfrak{H}}$ Update tasks for substitutes | Cloud type: Government Community Cloud High 🔹 🚺 |
| REST Web Service | Required mobile application security level |
| | Level: User defined 🔻 🛈 |
| Database acronym | - Push notifications |
| Current acronym: JIMAIN () | Activate mobile push notifications |
| | Diagnostic logging mode |
| | Level: Off 🔹 🧃 |
| | 🔟 Clear all diagnostic data |
| | |
| | |
| | |
| | |

5.16. New authentication provider – Admin Access

WEBCON BPS has a new authentication provider, Admin Access, that enables logging in to an account with global BPS administrator privileges right after the system installation in order to complete the configuration of the environment. The global administrator can then configure system settings, but does not have privileges to modify applications and processes.

The provider credentials are defined during system installation. Once a new environment is installed, Admin Access running in the **BpsAdmin** scheme is the default authentication provider. Logging in based on such credentials is also recommended in case of emergencies and unexpected system errors.

The configuration parameters of the Admin Access provider can be changed in WEBCON BPS Designer Studio under System settings -> Authentication providers

| Tasks Appearance | WEBCON Business Process Suite - Designer Studio | _ 🗆 × |
|---|---|-------|
| System settings () System settings () Users and groups synchronization (* | System settings (Admin access) PRODUC | |
| MBPS users and groups list Image: Translation languages Interface language packs Image: Cache | Save Active in Designer Studio: | |
| ⊘ ⊠ E-mail notifications ∭ MailApproval ← Proxy | Active in BPS Portal: Scheme: BpsAdmin | |
| Working days calendar HotFolders HotMailBoxes Document entry points | | |
| Authentication providers Admin access Windows Active Directory | Create new password × | |
| Azure Active Directory (AAD) | Old password New password Repeat new password | |
| Services configuration | OK Cancel | |
| Applications | | |
| System settings | | |
| Plugin packages | | |
| Loaded | | |

 \rightarrow Admin access.



5.17. Performance indicators

Added configurable **Performance indicators** that are used for timekeeping various tasks in the workflow.

The time is calculated based on actions that start and stop the calculation of an indicator. This allows the indicator to encompass any number of steps.

Indicators are licensed based on WEBCON Advanced Analytics Framework.

Configuration

Indicators themselves can be created the Configuration node of each Process.

The main parameter of each indicator is its **Operating mode**, which determines how the time is tallied:

Calculate based on calendar days, Calculate based on working days, or Calculate based on rule.

For **Calculate based on working days**, it is possible to establish what working hours will count towards the indicator. The working days themselves are configured using the **Working days calendar** in the **System settings**.

For **Calculate based on rule**, the value returned by the rule will be the final value of the indicator. The rule editor contains several additional variables to aid this calculation.

| (New performance indi | cator 📇 Save & publish process 🏢 Delete 📋 Clone | |
|--|--|------------------|
| 🚳 General 🖉 Usage | | |
| - General | | |
| ID: | -3 | |
| Name: | Expected Response Time | 文 ち 〜A |
| Description: | We are expected to respond to a ticket within 48 hours | - 这5 5A |
| | | |
| | | |
| Archived indicator: | | (j) |
| – Parameters – | | |
| Expected value: | 02d : 00h : 00min 🔹 | () |
| Operating mode: | Calculate by calendar days | - (j) |
| | Calculate by calendar days | |
| Working time on a work | calculate by working days Krace Calculate by business rule | |
| Work start time other than d | lefault: Work end time other than default: | |
| Start hours: | 09:00 🗘 End hours: 17:00 🌲 | |
| – Indicator calculation bu | isiness rule: | |
| | | \odot |
| | | |
| | | |
| | | |
| | | |
| | | |
| Working day length: | 00d : 00h : 00min * | |



Actions

To determine what steps are to be included in the performance indicator, two new actions were added: **Start performance indicator** and **Stop performance indicator**.



| | - Start performence indicator |
|-----------------|--|
| Indicator: | Expected Response Time |
| Operating mode: | Start from zero (resets the counter) |
| | Start from zero (resets the counter) Continue counting (does not reset counter) Continue counting including the time since the counter stopped |

The action configuration determines which indicator is affected by it.

For the Start performance indicator action, it is possible to define its Operating mode: Start from zero, Continue calculating, or Continue calculating while considering elapsed time.

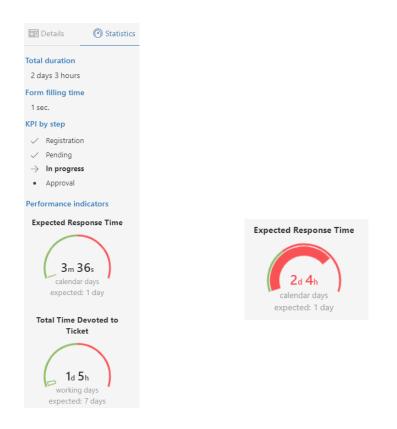
The second and third option allow a stopped indicator to be resumed.

Presentation

While the configuration of the indicator and placement of actions enable accurate and flexible timekeeping, the presentation of this collected data is key.

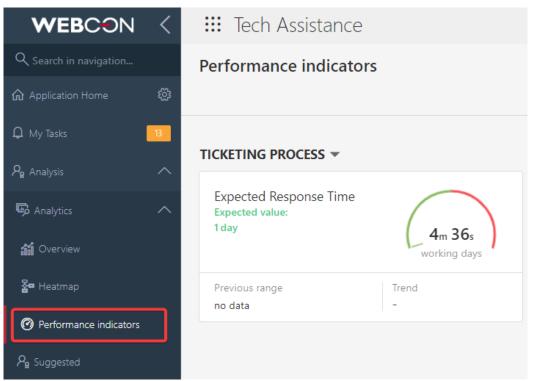
Indicators are presented in a new **Statistics** tab in the **Information panel** on each workflow instance.





The dial represents the elapsed time as a proportion of the calculated time to the expected time configured in the indicator.

Performance indicators can also be found in the **Navigation** panel on Portal, in the **Analysis** section.





Configured indicators may also be placed on **Dashboards**, and indicator columns can be added to **Reports**.

| | | | | | | | Columns |
|-------------------------------------|--------|---|--------------|---------|---|---|---|
| Form field | Header | | Default view | Formula | | | Search C |
| [System] ID | | Ø | | | Û | 3 | |
| [System] Instance number | | Ø | | | Û | 3 | Process Performance indicators |
| [System] Step | | Ø | | | Ŵ | ÷ | Expected Response Time |
| [System] Assigned to | | Ø | | | Ŵ | ÷ | Total Time Devoted to Ticket |
| [System] Days in step | | Ø | | | 1 | ÷ | |
| + Add default columns + Add calcula | | | | | | | |

Configured performance indicators will appear in the **Instance history**. These will be show differently depending on if the calculation is ongoing, was paused and restarted, or has finished.

 Image: Constraint of the second se

History showing time in one step:

History showing ongoing indicator:

| Total Time Devoted to Ticket | | |
|---------------------------------|---|-------------|
| fortal finite befored to ficket | • | |
| | | Calculating |

History showing time across multiple steps:

| | Subr | nit > | entation > 🛛 😳 Send to Ver | rification > \cdots Requires | Review > 🛛 \cdots Send to Ver | ification > |
|---------------------------------|--------------|---------|----------------------------|------------------------------|-------------------------------|-------------|
| | Registration | Pending | In progress | Approval | In progress | Approval |
| | Q | Q | Q | Q | Q | Q |
| Total Time Devoted to Ticket | | • | • | | 2 day 3 hours | |



5.18. Visibility of action columns when editing a form

Action columns are now always visible when the form is edited, irrespectively of the width of the other **Item list** columns and the presence of a horizontal scroll bar.

| | ice items move all | | | | | | |
|--------|--------------------------------|---------------|--------------|--------------|---------|----------|-----|
| ID Kei | Product/Service | Quantity Unit | Price | Net amount | VAT | Gross | |
| 1 | Outsourced accounting services | 1 month | 6,000.00 PLN | 6,000.00 PLN | 23.00 % | 7,380. I | Î ⊄ |
| Total | | | | 6,000.00 PLN | | 7,380 | |

When the browser window resolution is less than 768 px, the action columns are moved to the context menu available under the ellipsis icon.

| Invo | ice items | | | |
|-------|-----------------------------|---------------|---|---------|
| 🗓 Rei | move all | | | |
| ID | Product/Service | Quantity Unit | | |
| 1 | Outsourced accounting servi | 1 month | 圃 Delete 6,000.0 | |
| Total | | | کر Clone کر | JU PLIN |
| _ | | | | |



5.19. Change requests

The new version of WEBCON BPS introduces change request functionality to involve a broader group of system users in enhancing the system. The new functionality now allows application users to report errors and suggest improvements directly from the **Portal**.

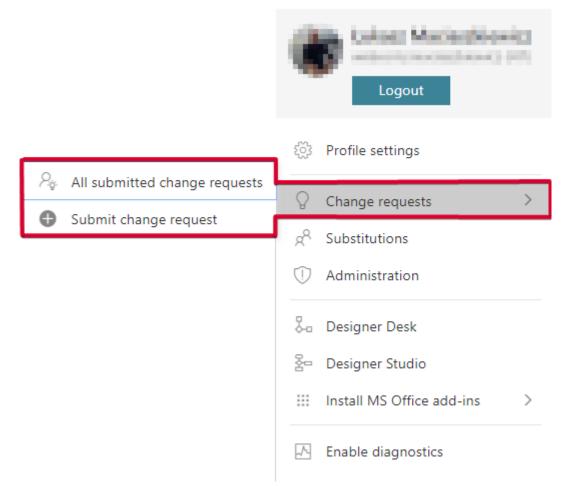
The functionality is available after enabling it in the **Designer Studio** configuration or admin panel in the Portal (it is disabled by default). For this purpose a new item in the Designer Studio's selection tree is created: **Change Requests** (**System settings** → **Global parameters**→ **Change Requests**) with three possible options to choose from: **Disabled** (deactivates the functionality), **Active – standard handling** (default setting), or **Active – custom handling** (allows users to specify the address of external form for change requests and use user-created process for collecting change requests).

| (J) ± ÷ | WEBCON Business Process Suite - | Designer Studio _ 🗆 × |
|---|---|--|
| Tasks Appearance | | Lukasz Maciaszkiewicz (webcon\.maciaszkiewicz) |
| System settings | System settings (Change Requests) | |
| Business rules G Form rules Automations | 🗟 Save | |
| ⊖ 💽 Global fields ♀ Licenses allocation | Availability | |
| Global parameters Appearance Action of the second se | Handling of change requests: | Disabled |
| Change Requests | | Disabled Active - standard handling Active - custom handling |
| Security Active Directory Action Inigur | K | |
| Users and groups synchronization Mg BPS users and groups list Image: Completion Languages | The second se | 2 |
| Applications | | |
| Data sources | | |
| System settings | | |
| Plugin packages | | |
| Reports | | |
| Ŧ | | |
| Finished https:// | dev 18. webcon.pl/WEBCONBPS Database=JJ_BPS_Content_Main; DB | Version=Main Version: 2023. 1.0.2294 |

A new item: **Change requests** is added in the admin panel in the Portal. The item enables changing configuration of change request functionality in the **Handling of change requests** field.

A new **Change requests** node is added to the user menu in the Portal. The node groups two items: **All submitted change requests** and **Submit change request**. The Submit change request option allows users holding access to the application (except for users working in the **Allow to work on behalf of another user**) to send change requests in a new window. Beside the fields allowing for describing the

change request and locate the specific location the change request refers to, the window provides a checkbox **Change request visible to all**. When checked, the request is visible to all users with access to the application. Unchecking the checkbox makes the change request visible only to the administrator and its author.



The All submitted change requests option shows all publicly shared requests along with their status (**Pending**, **Accepted**, **Done**, or **Rejected**). The requests are displayed using paging, with 20 requests per page, and sorted by modification date by default. However, there are other sorting categories available, such as date of creation, status, or user interest. Added the ability to filter change requests by user and application, allowing users to view requests submitted by a particular user or related to a specific application. Additionally, an advanced search function has been added to help locate specific requests more easily.

Added the ability for any user with access to the relevant application to view and interact with publicly shared change requests, including commenting (with the ability to edit or delete comments) and liking (adding or removing likes is considered a request modification). Introduced the ability to copy the link to a change request which can be opened in a web browser window to display the request in full screen. In addition, the request author can edit or remove it provided its status is Reported. The administrator privileges (system administrator, business administrator, or application administrator) include displaying requests to the application to which they have access, irrespective of the request's visibility set by its author, the ability to edit its status, changing the request availability, and deleting comments and the request itself irrespective of its status. An added option now allows the registration of additional requests based on change requests to the Designer Studio configuration (**Allow registering external requests**). This option enables the administrator to easily register requests that are based on existing change requests.

An identical mechanism of reporting change requests is implemented in **Designer Desk**. In this case, the functionality can be accessed – after entering a specific prototype – through a new node: **Change requests** added to the navigation menu. The node groups two previously mentioned options: **All submitted change requests** and **Submit change request**. A list of requests contains only changes requested within a specific application.

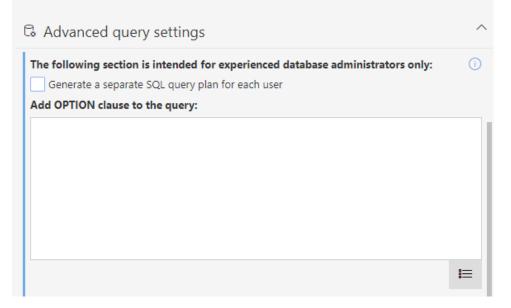
5.20. General

- A solution supporting the OpenTelemetry standard has been introduced, which greatly facilitates monitoring and diagnostics of the system (WEBCON BPS Portal and WEBCON BPS Workflow Service).
- Added a report for managing WEBCON BPS licenses. It is available in the System settings under License allocation and from Portal level in the Admin panel under Users and licenses.

| AU All user | s | | | | | |
|--------------|---|-------------------------------|------------------------|----------------------|------------------------|--|
| 🖒 Refresh | + Add 🛛 🗱 Add from template 🖂 🔄 Add / remove licenses | | | | | \equiv All users \checkmark $~$ $~$ Filter |
| Display name | $\uparrow~$ User identifier | Unlimited Solutions Access | Single Solution Access | Designer Desk Access | Designer Studio Access | Туре |
| Danny Ings | danny.ings@webcon.pl | | 2 🖂 | | | Defined - External User |
| Eve Mendes | eve.mendes@webcon.pl | | 0 (63) | | | Defined - External User |
| Isabel Green | isabel.green@webcon.pl | | 0 163 | | | Defined - External User |
| John Doe | john.doe@webcon.pl | | 0 183 | | | Defined - External User |
| | | 1/10 | 3/5 | 2/5 | 2/5 | |

5.21. Portal

• **Reports** can now have the ("OPTION(...)") clause added to the query.



Added the ability to execute the SQL query with a hash unique for each user, which allows for more optimal query plans to be saved to the SQL server (excluding KPI reports).

5.22. Actions

- Added the ability to send attachments exceeding 3 MB in e-mails sent via MS Graph.
- The **Invoke REST Web service** action now has the option to handle empty values.

The **Empty values** column will replace the old **Required** column, and has the following three options: **Skip**, **Send**, and **Return error**.

When updating to the newest version, in order to maintain backward compatibility, fields that were previously required will now automatically be set to **Return error**. Fields that are not required will be set depending on their data type: simple type to **Send**, complex type to **Skip**.

5.23. Data sources

• A new option named Validate Connection was added for Oracle database connections.

Toggling this checkbox will add the "ValidateConnection=true" parameter to the Oracle connection string.

Thanks to this, connections from the connection pool will be validated before being used. In cases where the connection is lost (e.g. through proxy) it will not cause an error, but a new connection will be opened



instead.

 In REST Web Service connections, added Basic to the available authentication types.

Added handling of errors when querying the REST source. Added notifications for users allowing them to search for error details by GUID.

Added new operation types for REST invocations (Get_with_body, Delete_with_body).

Choosing one of these types allows the request body to be sent in JSON format, like for other types.

5.24. Service

• Added the ability to define a list of all error codes that will interrupt the user synchronization.

All other error codes will not interrupt the user synchronization – it will be completed, albeit with errors (information about them will be included in the log).

Full list of error codes can be found here: https://learn.microsoft.com/en-US/windows/win32/debug/system-error-codes--8200-8999-

| Synchronization source: | Synchronize v | with local Active Dir | tory – i | |
|--|------------------|-----------------------|--|---------|
| Settings ♀= Credentials | 🛗 Schedule 🔰 | K Advanced | | |
| Additional search filter to use during s | synchronization: | | | () |
| | | | | - |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | - |
| xample: (sn=Green) | | | | ÷ |
| ixample: (sn=Green) | | | Synchronize the user list | (1) |
| ixample: (sn=Green) Error codes causing synchronization | | | Synchronize the user list | - - |
| Error codes causing synchronization | | | - | |
| Error codes causing synchronization | | 8235 | Incremental synchronization | |
| Error codes causing synchronization | | 8235 🕀 | Incremental synchronization Full synchronization | |
| Error codes causing synchronization | | 8235 🕀 | Incremental synchronization Image: Synchronize the user list in Debug mode | |

- Introduced the ability to run WEBCON BPS Workflow Service on a nondomain account (in non-UPN format). Communication with WEBCON BPS Portal in this case will be based on a generated certificate. The recommended format for the service account name is netBios.
- A global **ExchangeSynchroNbpUrl** parameter has been added to the configuration database, which stores the URL used for Workflow Service to retrieve exchange rates from the National Bank of Poland.

5.25. Designer Desk

• **Menu button** actions in Designer Desk can now be dragged and dropped between button groups.

5.26. API & SDK

- Added the isFinished property (informing whether an instance is in an end step) to the /api/data/{ver}/db/{dbld}/elements/{id} endpoint in API 4.0 and Beta.
- BaseField expanded with FieldType property: FormFieldTypes. BaseColumn expanded with ColumnType property: FormColumnTypes.
- API version 5.0 and beta now include two new modes for passing choice field values: Search and SearchAndSetTargetFields. They are used for finding an exact match in the configured columns and setting the value of the choice field.
- Added the ability for form fields in **Read-only (editable by JavaScript)** mode to be edited through the API endpoints get /elements and get /formlayout can now differentiate and return the two types of Read-only.
- Expanded endpoint /api/data/beta/db/{dbld}/formlayout in API version 4.0 and higher.
 Added the dbColumn property which returns the field name from the database, and the editability property which returns information about field editability.
- In version 3.0, REST API has an extended model of BPS group endpoints to assign (**POST**) and return (**GET**) a list of owners of a given group.

On the other hand, version 4.0 of this very architecture has been upgraded to include **group/owners/remove** endpoints which are used to add and remove owners of a given BPS group.

• Added API version 5.0. Removed version 2.0, while version 3.0 was marked as outdated.



- Added TemporaryEntitiesManager used for storing data in between multiple action executions.
- Introduced the asynchronicity in SDK API methods and replaced static tool classes with instance classes. Details of the changes made will be available in the migration document.
- Added handling of **External User Access** type licenses to API 5.0 and Beta endpoints.
- REST API has been extended with the SDK mode a new group of scopes and endpoints has been added, the so-called "HighTrust", allowing to perform operations on elements with full privileges. This will make it possible, for example, to edit invisible fields and set the **Picker field** to a value from outside the data source.

SDK mode will only work in "app context" applications.

6. Bug fixes

6.1. General

- Fixed an issue with the procedure for calculating substitutions to take into account changes in the ActiveTasks table.
- Removed an outdated .NET migration script from the list of scripts. The script could cause problems in environments with a very large number of elements.
- Fixed an issue where it was possible to add attachments despite defining restrictions. Renaming of temporary files added by the WebDEV protocol is now blocked.
- Fixed an error involving cache refreshing that occurred on environments containing related processes (i.e. processes from other applications). The error caused e.g. looping On Timeout actions, and the "An item with the same key has already been added" error which caused Portal to become unresponsive.
- Fixed an error of the installer script that updates the PublishedAttachments table. The error occurred when the default database schema was other than DBO.
- Fixed an issue that prevented connection to Microsoft Dynamics 365 used by selected sources and actions in the system.
- The login parameter in SQL queries will have a fixed length (255 characters).
- Improved the efficiency of loading search structures for environments with many content databases.
- During import, if the target environment does not contain an archive or attachment database specified in the import package, the default archive or attachment database will be used instead (as long as they have been configured on the target environment).
- Added missing DTK component to the documentation of components used by the **WEBCON BPS** system.
- Unified the behavior of the ExpectContinue header (status 100) for Portal and the workflow service. Authentications that download a token will have this value set to "True" by default in order to facilitate a connection.
 REST actions and data sources will have this value set to "False" by default. It can be changed in the action configuration via the XML file only.



- Improved the display of the "Collation" parameter when creating a database using the installer tools and standardized the language for displaying its properties. The order of parameters in the installer windows before and after database creation has been unified.
- During installation in a domain environment, the user will receive a message suggesting they use a domain account.
- Fixed the SQL query used to load the user list in the **Admin Panel**. The issue was caused by a reference to a SQL function unavailable in SQL Server 2014.
- Fixed the "Migrate column names to ID tags in item lists' configurations" error which occurred when updating from WEBCON BPS version 2019.
- The window for choosing a content database will not appear after switching Portal addresses if there is only one content database to choose from.
- A pop-up message in the installer will now suggest statistics will be updated daily instead of weekly.

6.2. Portal

- Fixed an issue caused by rapidly switching between instances in **My tasks**.
- Added validation to Calendar type views on **Reports** the required columns will be verified, and the error message will specify both the view and the Report.
- Fixed an issue with conditional coloring on **Reports** the problem occurred when making a coloring condition involving values of **Choice fields**.
- Fixed an issue that caused the **Recent activities** view to display the activities of other users.
- In the **Themes** configuration of Portal, a notification will be displayed if the main page image is not chosen.
- In the Removed users view in the Admin panel, the name of the mass action button was changed from Add/Remove licenses to Remove licenses.
- Fixed an issue preventing a **Report** from being saved if the first view was a chart.
- Fixed an issue preventing adding **KPI Report** tiles to a **Dashboard**.

- Improved scaling of chart-type views on **Reports** the legend and chart will fit without an unnecessary scroll bar.
- The current day and the selected day on the calendar view of a **Report** will now look different to easier tell them apart.
- **Reports** with enabled grouping that have been placed on dashboards will have the grouping panel expanded by default.
- Improved the efficiency of SQL queries in **Reports** containing the **Assigned** to system column.
- The order of columns in the Excel file exported from a **Dictionary Report** will correspond to the column order on the view from which the export was initiated.
- Enhanced appearance of version column in instance history.
- Fixed a problem causing no response after clicking the **NO** button in the modal window of a notification shown upon completion of a menu button action. Currently, the notification window displayed after action execution includes only one button for closing it.
- Fixed item displaying in the **Recent activities** section of application when applying the **All** filter.
- Fixed an issue causing an incorrect change of data format in a **Single line** of text form field. The problem appeared when a string entered in the form field was a date in a specific format, making saving a particular data string in a database impossible.
- Fixed the effect of global privileges on **Reports** using Searchindex as their source of data.
- Added message "Element was modified on another workstation. Refresh browser window." displayed when trying to save an instance modified on a different workstation. The message is displayed in a modal window that requires pressing the **OK** button.
- Fixed a concurrency error on Portal caused by duplicate users in the UserName column in the IdentityUsers table.
- Fixed an issue occurring when attempting to add an unsaved **Report** to a **Dashboard** in Designer Studio.
- Fixed a behavior of Portal that would make it display a message about lack of privileges to an application for a split second when loading a page.
- Fixed an issue with loading data in chart-type views.

- Fixed an issue that occurred during process import and prevented the transfer of the chart report configuration, namely its **Label description** and **Grouping** settings, to the target environment.
- Fixed an issue with filtering reports using Searchindex as their source the error was caused by the incorrect letter case being used when passing the login.
- Fixed an issue on **Reports** that caused the scroll bar not to appear.
- Fixed an issue on **Reports** that caused columns to disappear from the search panel when selecting the view that was already active a second time.
- Fixed overlapping search panels on **Reports**.
- Fixed an issue with links in **Report** cells not working correctly when opened in a new tab.
- Fixed an error preventing attachments with MSG extensions from being added.
- Improved the progress bar so as to not overlap elements to the right/under it.
- Editing **BPS Groups** will no longer cause the **BPS ID** to be validated it cannot be changed anyway.
- The Find instance widget on Dashboards will display a message about not finding an instance instead of "Bad request" error.
- Fixed an issue occurring after removing a filter on a report and refreshing the filter will now be removed correctly.
- Improved the visual marking of the leave report basic view in the side panel when the view was selected again. Previously, after switching to another report view and reselecting the basic view, the view name was not highlighted in the side panel.
- Fixed an issue that caused zeroes after the decimal point to be ignored when exporting from a **Report** to Excel.
- Fixed an issue that consisted of constant loading of tasks in the task counter in Portal. The problem resulted from incorrect saving of dashboard configuration after transferring it with the import-export mechanism.
- Fixed a bug that occurred after changing the language in Portal with a default theme set. The problem occurred when the previously set user-created theme had been deleted.



- Fixed an issue that caused the business administrator to sometimes see elements favorited by other users.
- Fixed an issue that caused the number of rows shown on **Reports** embedded in **Dashoards** to be calculated incorrectly – for some zoom levels, only 1 instance was shown per page.
- Fixed a bug where the filter settings for a report in the application's default **Dashboard** were not retained.
- Fixed an issue where **Translations** and **Add New** options were visible in WEBCON BPS Portal with the **Edit mode** disabled.
- Fixed an issue preventing the **Dashboard** from being edited.
- Improved the position of the **Chart** type report view on the **Dashboard**.
- Improved the display of the defined **Range filter** in the dedicated menu of the table report.
- Fixed incorrect marking of items in the navigation menu.
- Fixed an issue with rounding average time on **Reports**. Too many decimal places were being shown.
- Fixed an issue with the loading icon so that it displays in the correct theme color – it would sometimes display the default color before the theme settings loaded.
- Fixed an error that suggested incorrectly that a **Report** has unsaved changes. Saving such a faulty Report would reset its column configuration.
- Fixed an issue with date/time conversion from UTC on **Calendar** Reports using Solr as their source.
- Improved the counting of instances with indicated values in the Solr report for which two **Grouping** levels have been defined – by **Picker field** and step. Previously, instances with renamed values were not counted and their total number was displayed as "<Blank value>".
 In addition, the names of the values by which the instances are grouped will be displayed similarly to those in the SQL report (without commas).
- Improved the display of a vertical scroll bar on the drop-down list for selecting a report View.
- Fixed the look of the **Replaced person** field in the **Substitutions** module. This field should always be read-only.



6.3. Form

- Fixed an error 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 allowing the initialization of an **Item list** that was in **Read-only** mode.
- Fixed a bug occurring when expanding the **Item list**. The bug was removed by adopting a new method for creating model names for item list.
- Changed the position of the red asterisk relative to the name of the **Item list** column, which suggests that this field must be filled in on the form. After the change, the position of the asterisk is the same as for other form fields.
- Fixed a bug where the order of the **Item list** columns was incorrect after importing an application from another environment.
- Fixed an error that occurred when importing **Item list** columns from MS Excel, if a **Default value** was set for this form field.
- Improved the efficiency of operations on the Item list.
- It is now possible to copy the **Item list** column total to a form field configured as **Read only**. In addition, column totals will be copied on path transitions through the public API and service.
- Fixed a bug that occurred when adding attachments bigger than 4 MB to the column **Local attachments** in the **Item list** form field. As a result, an attachment was added to the **Attachments** field, but the item list included information that it was deleted.
- Fixed a bug that caused the IDs of the Item list columns of the Local attachment type to duplicate in the data base when overwriting these columns.
- Fixed an issue that caused excessive recalculations in the values of Item list rows.
- In Diagnostic mode on the form, when an Item list column is set using the Target field configuration, it will not be erroneously logged with an "inline rule" header (which implies that it was set using a rule).
- Fixed an issue that caused the headers of **Item list** columns to overlap with the values. This occurred when the background of the list was colored with **Form rules**.



- Added color verification for coloring Item lists based on form field/column values.
- Acceptance on Item lists configured on the form in a specific step will now work even if the column configured for acceptance does not have the Show in dialog option enabled.
- Fixed an issue with **Item list** columns of the **Date and time** type that were set as required using a **Form rule**. The red dot indicating that they are required will appear next to all relevant cells.
- Fixed incorrect filtering of **Item list** columns with calculated value including Polish diacritics. The issue resulted in removing Polish diacritics in the filter values returned by the query to the internal API. After choosing the filter with such values, the system was unable to find the respective value. The problem occurred only for the database with **en-US** language.
- Fixed an issue with calculating the value of a **Hyperlink** column on **Item lists**. The issue caused the hyperlink to be built based on the first row of the item list and displayed in all rows.
- Improved the alignment of the summary row on Item lists.
- Unified rounding of column summaries of **Item lists** and the form fields to which its value is copied. Rounding will behave everywhere like in Excel rounding up from (and including) 5.
- Fixed an error on the form which occurred when attempting to perform some operation on an **Item list** after an unsuccessful **Validate form** action.
- Fixed an issue that caused **Item list** columns set using the **Change item list** values action to not also set relevant target fields.
- Improved the coloring of Item list columns using semi-transparent colors.
- Fixed an issue with the height of **Data row** type columns on **Item lists**.
- Fixed the centering of Yes/No choice fields (i.e. checkboxes) on Item lists.
- Fixed the centering of **Yes/No choice** fields. Checkboxes will be aligned the same in editable and read-only modes.
- Fixed a bug that prevented all **Data tables** from displaying correctly on a form if the configuration of one of them was incorrect.
- Fixed an error that occurred when attempting to import **Global field** translations into a process form field and changing its type in the configuration.

- Fixed clearing erroneous values from **Choice fields** using **Popup search** window behavior.
- Fixed a bug occurring after clicking a menu button invoking an action.
- Letter case should have no impact on searching in fields that return people (i.e. they should be case insensitive).
- Fixed a bug that prevented going through a path when a **Custom instance number** with an exceeded allowed number of characters was defined in a workflow.
- Changed the function by which phrases are searched in the BPS internal view data source configured for the Choice field (Popup search window).
 After the change, the searched values will be correctly matched on a form.
- Fixed an issue that prevented starting instances in a new tab using the middle mouse button.
- Fixed a bug that appeared when invoking the JS
 API SubelementInitialization rule with the wrong form field ID. Added a condition that checks if an form field with the specified ID exists and if it is of subelement type. Failing to meet the condition results in displaying a warning and ceasing to process the request further.
- Fixed a bug that appeared when invoking the MarkSubelementRequired and MarkSubelementNotRequired rules with the wrong column name specified. Now, a warning is displayed in such a situation.
- Fixed an issue with button spacing on the attachment panel.
- Unified how path buttons are displayed on the form in view mode (i.e. not in edit mode) fixed an issue that caused path buttons to appear twice.
- Fixed an issue where text typed into the Multiple lines of text form field in Append mode would not wrap properly and would extend outside the field. The problem was solved by adding a dedicated scroll bar.
- Improved the arrangement of quick action icons on files attached to the form so that they are aligned for all attachments.
- Fixed an issue with the **Multiple lines of text** form field the Rich Mode would sometime not activate when moving between the **My Tasks** view and the fullscreen form.
- Fixed an issue with excessive developer logging that could prevent the correct display of a form.
- Improved the visibility of the version number in the start step.



- Fixed a formatting issue in **Data row** form fields numbers will now be aligned to the right.
- Optimized the **Attachments panel** on the form. Excessive SQL queries were activated when loading related attachments and e-mail conversations.
- Fixed an issue with highlighting the attachments panel the **Add attachment** button will be highlighted correctly when selected.
- Fixed an issue with the scroll bar in **Choice fields** in **Autocomplete** mode that was caused by long values.
- The user will be notified if the provided color is invalid.
- Fixed how the row grouping function on **Item lists** works, especially in the case of business rules that operate on the current row.
- Fixed an issue resulting in displaying the message **Invalid Checksum**. The problem occurred after adding a new row in the **Item list** and selecting a value from the **Autocomplete** column.
- Fixed an issue that caused column headers in **Data Tables** to be translated incorrectly.
- Fixed incorrect display of percentages in the progress bar on the form. After the upgrade, percentages are correctly vertically aligned.
- Fixed how the column name is displayed in the **Data row** form field in a **Group** that displays form fields horizontally.
- Fixed an issue involving values from a **Choice field/column** disappearing when the browser window was resized.
- Fixed an issue that sometimes caused copying text to fail when copying into a **Multiple lines of text** field in rich text mode (HTML).
- Updated the version of the IT Hit WebDAV library for editing PDF files through the form.
- Fixed incorrect view changing in holiday reports displayed in a Dashboard. Previously, despite correct configuration, it was not possible to change the view in the holiday report.
- Fixed an issue that resulted in displaying the message **Cannot read** properties of undefined (reading 'operationid'). The problem appeared when a **Choice field** was filled out with a default value.



- Optimized requiredness update mechanism for form fields and item list columns based on business rules. The update now takes place only when there are existing dependencies between form fields in requiredness rules.
- Fixed an issue that caused choice field expanding menus to not close after selecting another field.
- Fixed incorrect operation of the change detection mechanism. If a form included global form fields, changes in the process configuration always required refreshing the form.
- Fixed incorrect comment requiredness validation. The issue occurred in the form Read-only mode and blocked the on-path transition.
- Form validation will be disabled in Read-Only mode and when viewing archived instances the users will not be shown errors concerning data they cannot change.
- Improved the way in which the focus is set when switching the form into edit mode. **Data Table** and **Data row** form fields will not be focused first when switching into edit mode.
- Fixed an issue involving data not being saved on the form. The issue occurred when the form was first opened in read-only mode, then switched to edit mode, and was left open in the browser for ~10 minutes.
- Fixed an error that occurred on Item lists after changing the process configuration in Designer Studio.
- Fixed an issue that caused displaying a false message informing that a file is edited by a different user, which precluded its edition.
- The **Data row** form field displaying a percentage with no value will now show "0%" using the control font color.
- Fixed an error that made it impossible to add an e-mail conversation as an attachment to a workflow instance when the e-mail conversation contains files exceeding 4MB.
- Fixed an issue with a duplicate login column in **Person or group** fields and other choice fields that use BPS users as a data source.
- The attachment preview window on the form will now fit the screen better. This will leave less space above and below the window.
- Fixed an issue with the attachment preview that was caused by its placement on the form being other than the default.

- Fixed an issue that caused the "target field" function in **Choice fields** to treat text as dates.
- Fixed an issue that occurred when entering from an OCR project a value to a form field which is a number greater than or equal to 1,000,000.00 and whose thousands separator is a period.
- The Horizontal arrangement of form fields in group option will cause the names (labels) of form fields to be displayed in one static place – above the specific field.
 Other options that modify the position of form field names will not even will

Other options that modify the position of form field names will not overwrite this option.

6.4. Designer Studio

- Added missing context help for the advanced configuration of choice fields.
- Fixed a bug occurring when transiting to a step on a path with HAS ANY ROWS function inserted in the Availability restriction on form field in Designer Studio.
- Fixed an issue with the edit button for accessing the expression editor in various places in Designer Studio it would sometimes cause an error if an empty configuration field was focused beforehand.
- Fixed incorrect deletion of space character at the beginning and the end of the text entered in the **TEXT** business rule.
- Fixed an issue that obstructed changing the sequence of form fields in **Global form template**.
- Optimized the speed of launching Designer Studio.
- Fixed an issue that blocked certain areas of Designer Studio (e.g. REST API) when the number of other available licenses was exceeded (even if the person using Designer Studio had the correct license).
- Fixed an issue with refreshing the **Workflow Designer** in some cases, deleting paths from the designer would prevent saving.
- Fixed an issue that caused incorrect plugin package creation and application import. The problem occurred in the environment with two WEBCON BPS Portal instances and load balancing through Reverse Proxy with **cookie-based affinity** enabled.



- Fixed an issue that precluded entering superior for an already added external user. As a result, the field **Superior** was visible only when adding a new external user.
- Fixed an error involving **Automations** with a **For each** operator blocking Designer Studio in cases where a data source existed that had a filter on a no-existing column.
- Fixed an issue resulting in incorrect coloring of variables in **Designer Studio** when entering them in lower case.
- Fixed an issue that precluded sending an e-mail with confirmation of successful path transition through **MailApproval**.
- Fixed an issue that prevented the list of workflows in a **HotMailBox** configuration from refreshing.
- Fixed an issue resulting in failure to import process. The failure was due to an invalid migration script that did not remove records from the **Translations** table referring to non-existent instances.
- Fixed an error that caused paths on the **Workflow diagram** to change positions after saving.
- Fixed incorrect display of login window when starting WEBCON BPS Designer Studio in administrative mode. As a result, the login window was displayed behind the Designer Studio banner.
- Fixed an issue that caused transferring configuration values in Hotmailbox when changing server type. Now, the configuration values are cleared when changing the server from MS Exchange 2013/2016/2019 to Exchange Online – Microsoft Graph and the other way around.
- Fixed incorrect formatting of date and time returned by the business rule **SELECT VALUES**. The problem consisted in returning the date with an offset in relation to the time zone. Now, the rule returns dates in ISO format compatible with the system.
- Fixed incorrect displaying of the Hyperlinks function (Start Element (...) and Open Element (...)). The issue consisted in displaying the function in advanced mode each time.
- Improved error logging in Designer Studio.
- Added missing instance number nodes in the Expression editor window. The problem appeared when editing form custom instance number (Application name → Configuration → Form types).



- If the default start button is the only one in the application, it will no longer erroneously show an asterisk next to its name (i.e. inform about unsaved changes which are not there).
- Fixed an error that caused the default port 25 to be used to send e-mails signed with attachments the port set in the SMTP configuration will now correctly be used instead.
- When creating a vacation process, in the step for selecting an Exchange connection, if a new connection is created it will be automatically selected.
- It is now possible to edit **MailApproval** help commands in Designer Studio. The names of the help commands will be translated into the installation language of the database.
- Fixed an issue with mapping parameters in Designer Studio for Rules, REST actions and data sources, as well as HTML and SDK form fields.
- Fixed an issue that caused the proc_GrantLowPrivileges procedure to skip the CacheOrganizationStructureGroupRelations table.
- Fixed the error occurring when using the MailApproval test button.
- In the filter editor, fixed missing values in the **Data source columns** node.
- Fixed an issue related to checking the usages of an element to be deleted

 the message containing all usages of a deleted element will now appear
 correctly.
- Fixed an issue with variables available in the editor of the **Mass notification** templates added suffixes to differentiate variables used in the template.
- When choosing the **Dynamic** option in the task assignment configuration on a path, it will not be possible to save a process until the Field/Column input fields under this option are filled out.
 When the option is disabled, these fields will be cleared.
- Fixed an issue with saving that caused the save progress bar (or rather circle) to freeze on the final step.
- Optimized importing by improving the efficiency with which variables are replaced.
- In the configuration of e-mail notification templates, fixed the placement of the cursor and the way it moves when using the Tab button.
- Fixed an issue with copying an **Item list** that contained a default value an error occurred when trying to save the changes.

- Fixed an issue related to incorrect translation of the **Choice field** columns in the **Advanced configuration** window after importing an application prototype from WEBCON BPS Designer Desk.
- In the configuration of **Choice fields**, the **Additional link** option will always be available even when the **Allow adding values not in data source** option is toggled off.
- Fixed an issue with logging out of Designer Studio.
- Fixed an issue occurring during the transfer of privileges when importing an application.
- Fixed an authentication bug that occurred on opening the **Response** tab in the **Invoke REST Web Service** action configuration.
- Fixed an error that occurred when using the **Verify process** tool after switching Content databases.
- Fixed a bug that could cause the message "The internal array cannot expand to greater than Int32.MaxValue elements" to be displayed for very large environments. The fix was to optimize the performance of the application import/export mechanism.
- The correctness of the URI address will be validated in the proxy configuration.
- Fixed an error that occurred when trying to import an application into a target environment due to duplicate indexes of **Item list** columns.
- Fixed the incorrect scaling of the **Workflow designer** diagram.
- Fixed the lack of confirmation e-mails in scenarios where the **Use custom outbox settings** option is used in **MailApproval** configuration.
- Fixed an issue with importing the ConfiguredWebServices Table when importing an Application.
- Fixed a bug in downloading the profile pictures of users when synchronizing them with Azure Active Directory.
- Fixed incorrect displaying of the ellipsis icon next to the **Temporary files directory** option in the service configuration (the **Configuration** tab).
- Improved the validation of path Usages previously, it was possible to drag the path to another step in the WorkFlow designer, even though the path was used elsewhere in the system.



- Fixed an issue with refreshing related processes when saving a different application.
- Fixed an issue causing mass notifications to be sent on non-working days regardless of configuration.
- Added missing info to the LogCleaner context info in **Schedules**.

6.5. Actions

- Fixed an error that appeared when trying to execute the **Manage users** action configured on a menu button and with the **Unlock/Lock** options checked for account availability.
- Fixed an issue that blocked the operation of the Generate/Update a Word file action if it was configured in an automation using For each operator with SQL data source defined as Collection type.
- Fixed a bug occurring when attempting to process certain PDF files. The bug occurred in some cases when users checked the Skip PDF files with text layer and Skip PDF files with signatures options in the configuration of the Add a text layer action. Improved logging into the OCRSpace service.
- Fixed the lack of logs concerning assigned privileges using actions from the **OneDrive** group.
- Fixed an issue that prevented the **Delete a list element** action from working.
- Fixed a bug that prevented Send a custom email action from working properly when Exchange Online – Microsoft Graph was specified as Server type in Configuration of sending emails. After the update, users will receive Delivery notification and Read notification as configured for the action.
- If the WSDL file used in the **Invoke SOAP Web service** action is too large, the user will receive a warning (same as with data sources).
- Fixed an issue with loading **Double** type values when using the **Invoke SOAP Web service** action.
- Fixed an issue that occurred when copying the **Invoke REST Web service** action. After copying, certain sections of the action configuration became inaccessible.
- Fixed an issue preventing the **Invoke SOAP Web service** action from being configured after constants were used in its configuration.
- Fixed an issue with the **Invoke SOAP Web service** action that occurred when importing a process from a package exported as a template.



- Fixed an issue that caused the mapping of Item list columns to be lost when configuring the Invoke REST Web service action and reloading the response for JSON Grid. As a result, the values of these columns were not entered on the form. In addition, improved the cleaning of tree fields in the Values mapping table when complex field types are changed.
- When using **Business rules** in the configuration of **Invoke REST Web service** actions, the action will now correctly save the type of data returned by the rule.
- Fixed an issue with signing PDF attachments in Adobe with IT Hit Edit Doc Opener.
- Fixed ID encoding used for requests to MS Graph. There was an issue where the IDs passed to Graph were not parsed correctly and returned a "RequestBroker--ParseUri" error.
- Fixed an issue that would sometimes undo the copying of actions.
- Exchange actions configured to set the status in MS Graph when creating/modifying **Exchange Events** will now work correctly.
- The "Out of office" option in the exchange calendar will be displayed as "Unavailable/Out of office".
- In actions that generate files, if the correct file extension is not included in the output file name, it will be added at the end of the file name. This behavior will take place even when the file name has dots in it, e.g. "first.file" will become "first.file.docx".
- Fixed an issue with the order of triggering **On timeout** automations. Timeouts will be triggered in the order in which they appear on the action list, i.e. alphabetically.
- Fixed an error in **On timeout** automations that would occur in cases with many subworkflows.
- Improved error logs for actions involving SharePoint.
- Exchange events created using MS Graph will include HTML in the event description.
- The button for testing in Exchange actions will now open a pop-up window for entering the user for which the test Exchange action will be carried out.
- Corrected the way of reading the Generate a PDF file action configuration

 it previously caused an error in executing the action after updating the
 system to version 2022.1.4.84.

- Fixed an issue that caused the instance history to omit certain actions.
- Fixed an issue in the **Hyperlink** action which caused it to display its configuration in the advanced mode constantly.
- When using an **Action template**, the documentation was not copied into the place where the template is used this has been fixed.
- Fixed an issue with checking if the target folder for the **Add an attachment** to a list action exists – checking the folder names will not be case sensitive.
- Fixed an issue with duplicate/invalid keys in copied actions. The issue was propagated by copying actions on steps and global actions. The migration script will remove all invalid keys, and actions copied in the future will be assigned valid foreign keys.
- Fixed an issue with setting the end-time of all-day events set up using the Exchange events action – the action would not work correctly when using Microsoft Graph.
- Fixed an issue with the **Generate/Update a Word file** action the issue occurred when the template used in the action was edited at the form level, this led to some fields used in the template not working correctly during document generation.
- In the case of missing licenses, **Menu button** actions on the form will be inactive.
- Fixed missing Item lists in the mapping of the Generate Excel file action.
- Improved handling of image generation (i.e. 2D codes) in Generate/Update a Word file and Convert Word to PDF actions.
- Adding privileges to a SharePoint list element via the Add SP privileges action will add privileges to the selected element only – an error caused the privileges to be added for the entire list.
- On Timeout triggers will now be ordered alphabetically (instead of by ID).
- Fixed an error in the **Update attachment** action changing the name of the attachment to include a dot "." would add two instead.
- Fixed an issue that occurred when the **Generate an Excel file** action was configured to create an .xlxs file **From url**. In that case, the user received a message that the indicated file does not exist. After the change, with that configuration, Excel files are generated correctly.
- Fixed issues and improved handling of barcode printouts realized via SignalR which is used to connect cloud installations with local printers.



6.6. Rules

- Fixed the context menu in **Rules** that is accessed via the Ctrl + Space shortcut. The values in the menu will be displayed in the correct order. Certain sub-nodes were displayed as main nodes.
- Fixed an issue with the **STRING REPLACE** function. An error would occur if a business rule was used inside this function.
- Fixed an issue that occurred after defining a **Form rule** on a page load with respect to the **Item list** whose visibility on the **Field matrix** was hidden. A similar issue occurred when the Item list was visible and one of its columns was not.
- Fixed the comparison operations in In form rules that were using business rules (i.e. rules in asynchronous mode). Comparing form fields containing numerical values would return incorrect results.
- Fixed an error that occurred when using an unsaved **Business rule**.
- Fixed an issue that allowed variables to be used in places where they should not be available.
- Fixed and issue with a form rule based on a business rule where the **EMPTY** value was treated as "0" when compared to a numeric form field value.
- Fixed incorrect recognition of value types in **Form rules** used in actions configured with the **For each** operator. Previously, an error message was displayed when a rule was to perform arithmetic operations like multiplication, addition, etc.
- Fixed missing nodes in the Rules editor.
- Fixed a bug that prevented the correct work of **Form rules** configured with two or more **FORMAT DATE** functions.

6.7. Data sources

- Fixed an issue caused by using a column alias containing a space in **Oracle database** data source definitions. In such cases, the alias containing a space will be placed in quotation marks in the final query (similarly as with MSSQL databases where they are placed in square brackets).
- Fixed an exception that would occur when editing the filter in **BPS Users** type data sources.
- Fixed an issue that occurred when migrating to 2022 R3 or newer versions due to which the account accessing the database did not have privileges

to the **dbo.Split** function. Added privileges to the dbo.Split function to the **proc_GrantLowPrivileges** procedure.

- Fixed a bug that prevented the selection in WEBCON BPS Designer Studio in the **Data source filter** of a column of this source that contained a colon (:) or a hash (#) in its name.
- Parameters that are not handled by WEBCON BPS: table of tables or complex types within a table of complex types will not be visible in the configuration even if included in the WSDL file definition.
- Fixed an issue that made it impossible to filter the **SharePoint list** data source column using the value from the **Yes/No choice** form field.
- Invoking **SharePoint list** type data sources will also work through a proxy if the use of a proxy has been enabled in the system configuration.
- Fixed an error that occurred when changing the data source type for a **Choice field**. The problem was due to the failure to change the form field settings in **Advanced configuration**, as required for the new type of data source.

The following changes have been made:

- added a mechanism to check whether the columns of the new cache data source are consistent with the form field configuration. If they are not, the user will receive a message: "The chosen data source contains a different set of columns than those configured in the form field. Please reconfigure the form field to use the updated data source."
- disabled the option to save a **Choice field** with the above incompatibility. When attempting to save such a form field, the user will receive a message as above, additionally preceded by the phrase: "Required configuration of the form field name]"

This validation mechanism will work only for sources whose columns are available in the cache. Otherwise, validation will not occur.

- Fixed an issue related to using variables in REST data source configuration that return characters forbidden in XML.
- Fixed the substitution of the **CurrentLoginName** variable in the filters of **Reports** using Searchindex as their source.
- Updated how links to instances of a **Document Template Process** are generated. The URL to the instance will now additionally contain the GUID of the Process.

This will ensure more efficient queries in systems with multiple content databases. The system will pinpoint the database containing the instance



based on the Process GUID. Configurations that use the old URL format will continue to work correctly.

- Fixed a migration issue with the XML configuration of the **Data table** type form field. The issue occurred for data source columns whose names consisted only of spaces.
- Improved handling of date-type data (dates without time) in REST Web Service type data sources.
- Fixed a bug hindering synchronization of users between domains when the number of users resulted in generating a query exceeding the maximum allowed length.
- Fixed missing values in the Edit parameters mapping of SOAP and REST Web Service data sources.

6.8. Add-In

- The **Outlook Modern** Add-in will show correct info about not supporting Outlook 2019.
- Fixed an issue preventing the user from logging in to the **Outlook Modern** add-in.
- Fixed the definition of the manifest file for the **Outlook Modern** add-In.
- Improved the loading of translations into the **Outlook Classic** Add-in.
- Improved the validation of URL addresses provided in the "returnUrl" parameter when "Trusted domains" were defined in the system. Previously, the validation returned an error that prevented logging in to **Word** and **Outlook Classic Add-ins**.
- Fixed an issue that prevented the Outlook Add-In to connect to WEBCON BPS Portal in Cloud installation mode.
- Fixed an issue that occurred when attempting to delete configuration elements (e.g. paths, steps) that were used in the configuration of Outlook Add-in tiles.

Deleting such an element will cause the given value to be cleared in the tile configuration.

• Fixed a typo in the comment added to instances started with the German version of the Outlook Add-in.

6.9. Mobile app

- Fixed a bug that prevented changing prototype name in Designer Desk on narrow screens and mobile devices.
- Fixed a bug that caused the dropdown list for administrator actions to be displayed incorrectly on iPad devices.
- Fixed an error that would sometimes occur on the mobile form in Safari when attempting to save immediately after entering data into the **Multiple lines of text** field in rich mode.
- Fixed an error that appeared when creating a new profile in the mobile app. The error was related to WEBCON BPS license checking.

6.10. Service

- Fixed an issue involving incorrect date conversion by HotMailBoxes.
- E-mails processed by a HotMailBox configured to use Exchange Online Microsoft Graph will be marked as read in the archival mailbox.
- Fixed an issue with the attachment processing history logs of **HotFolders**. The problem was too many logs in the Designer Studio reports. Excessive logs will now be displayed as service activity.
- Improved information logging from the MailApproval function.
- Improved the notification that the user will get from **MailApproval** if they attempt to move an instance that is no longer in the correct step.
- Fixed an issue with the license activation packs. Attempting to update the license packs could result in an error if the service was activated in a version older than 2022.1.4.
- Fixed a transaction error which was the result of failed attempts to send admin notifications from the service.
- Optimized queries to the action queue of **On timeout** actions.
- Fixed an issue related to not taking into account historical database acronyms in 2D codes.
- Fixed an issue that cause service modules to be activated multiple times this would cause e.g. the same e-mail to be sent more than once.
- Fixed an issue and behavior in case the currency exchange rate synchronization fails.

- Improved the efficiency and stability of Designer Studio in the configuration of mass notifications.
- Fixed an issue that caused user synchronization and mass notifications to be triggered immediately after restarting the service. This problem occurred when an activation time was defined in the schedule, and the service was restarted after this activation time (on the same day).
- Added validation for the **Active Directory properties** column. It may not contain special characters or spaces.
- Fixed incorrect attachment processing during full Solr indexing. The problem derived from an external component running in the same process as the service, which resulted in the crash of the whole process.
- Fixed an issue with BPS user synchronization in cases where the installation was carried out on a local user.
- Queue handling has been optimized in **WEBCON Workflow Service**.
- Improved the efficiency of a full Solr indexation.
- Fixed an issue with Incremental AAD synchronization, the issue caused the COS_ManagerBpsID, COS_ManagerDisplayName, COS_ManagerLogin properties to be set to NULL despite there being no change in COS_ManagerID.
- Fixed an error that occurred when syncing user photos with AAD.
- Updated the address for loading currency exchange rates from NBP (National Bank of Poland).
- Fixed the handling of invalid e-mail messages by **HotMailBoxes** configured to use Microsoft Graph.

6.11. Designer Desk

- Fixed a bug that prevented prototype testing when an invalid **Global form rule** was defined in WEBCON BPS Designer Studio in JavaScript mode. As a result, global form rules will not run when opening a Designer Desk test from.
- Fixed an issue that occurred when adding multiple paths between steps in **Workflow designer** and trying to save an application prototype.
- Fixed an issue where an undefined system area, **Business entity**, appeared on the form. The issue occurred when all form fields on the right panel were marked as visible in a given step in the **Field matrix**.



- Fixed a bug that appeared after editing the prototype **Description** and saving it on a mobile device such a description was then erroneously replaced with the prototype **ID** value.
- Fixed the lack of visibility of Item lists on the Field matrix in Designer Desk.
- Fixed the positioning of form field edit buttons in Designer Desk.
- Fixed an error preventing attachment preview in instances started with Designer Desk.
- Added a migration script that deletes unused automations in published Designer Desk applications.

6.12. API & SDK

- Fixed an issue with custom controls for Integer type form fields.
- Fixed an issue that occurred when providing an incorrect **Item list** ID in the **SubelementDelete** command in JS API.
- Fixed an issue resulting in long user synchronization time. The endpoint returning incorrect user synchronization status was fixed in API 3.0 and 4.0.
- Blocked the ability to use API to clear a choice field in dropdown mode, if such an operation is impossible from the form.
- Fixed an issue causing incorrect comment validation in API. The problem occurred when using a path with the **Comment required** checkbox marked.
- Places, where it is not required for privileges to the form to be checked, will also not check for privileges to attachments.
- Fixed a bug occurring after invoking endpoint GET
 /api/data/v5.0/admin/licenses for a deleted user. In API 5.0 and beta
 versions the license model has been expanded with the userIsDeleted field
 and support for accounts that are deleted, but have assigned licenses.
- Fixed a bug where SDK plugin reference files were being skipped when exporting an application that used the plugin.
- Fixed an issue with the creation of SDK packages containing form field extensions by adjusting them to npm 8 and Node.js v16 as well as newer versions.

Also improved the mechanism for importing external libraries.