

WEBCON BPS 2022 R3

history of changes for version 2022.1.3.47



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1. Before upgrading WEBCON BPS

1.1. Before upgrading WEBCON BPS

- To avoid unnecessary 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 2022 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.
- 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. Depending on the size of the SOLR database, this update
 may take some time.
- The version of the ASP.NET Core 2.1 component used by WEBCON BPS Portal
 has been changed to ASP.NET Core 6.0.
 The ASP.NET Core 6.0 Runtime Windows Hosting Bundle component must
 be installed before the upgrade.
 The installer will validate the component version during the upgrade.

NOTE:

Changing libraries for the WEBCON BPS Portal component to ASP.NET Core 6.0 resulted in switching to the .NET Core CLR runtime environment. The .Net Core CLR environment **does not support MS SQL server aliases**. Consequently, it is necessary to use the MS SQL server's direct name in the WEBCON BPS Portal configuration files and in the definition of MSSQL database connections configured in WEBCON BPS Designer Studio.

If the upgraded environment uses connections to SharePoint Server 2013, SharePoint Server 2016, or SharePoint Server 2019, before starting the upgrade, the SharePoint Server Client Components SDK compatible with the corresponding SharePoint Server version must be installed on the server where WEBCON Workflow Service is installed. Connections to SharePoint online do not require installation of additional components.
 To ensure the correctness and continuity of actions and data sources based on connections to SharePoint Server, WEBCON Workflow Service must be able to communicate with SharePoint Server using the SharePoint Client Object Modal (CSOM) component.
 During the upgrade, the installer will verify that connections to SharePoint



Server have been defined in WEBCON BPS and that the correct version of the **SharePoint Server Client Components SDK** is installed.

Starting with WEBCON BPS 2022 R3, SDK add-ins must be compiled to **.NET Standard 2.0.2**.

When upgrading to the latest version, it will be necessary to enter the
password of the SOLR database administrator to verify the integrity of the
data in the SOLR database and correctly complete the upgrade process.
After the upgrade is complete, instance re-indexing tasks can be added to
the SOLR indexing queue. Only entries with an empty WFDID field will be reindexed.



2. Information

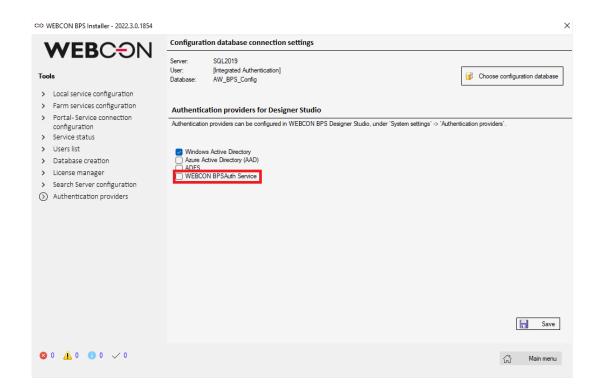
2.1. General

Expanded diagnostic logging from the start of new workflow instances.

2.2. WEBCON BPS Authorization Service deactivated

Starting with WEBCON BPS 2022 R3, it will not be possible to configure WEBCON BPS Authorization Service (auth.webconbps.com) as the **Authentication provider** for new installations.

This service will be completely unavailable in WEBCON BPS 2023 R1.



Therefore, the user should consider changing the system configuration for authentication providers and abandoning WEBCON BPS Authorization Service in advance. As an alternative to WEBCON BPS Authorization Service, the system's built-in authentication providers (OpenID Connect or ADFS) should be used.

WEBCON BPS Authorization Service will continue to work in WEBCON BPS 2022 R3 and earlier versions.

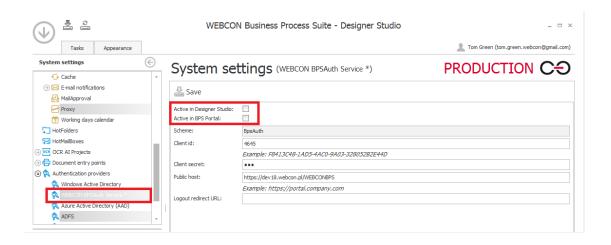
Unless there is an active configuration, WEBCON BPS Authorization Service will no longer be available in WEBCON BPS Designer Studio.

Otherwise, the configuration will continue to work correctly.



If the user deactivates the configuration and attempts to save it, the following warning will appear:

"The configuration of the WEBCON BPS Authorization Service authentication provider has been deactivated. After saving changes and restarting the WEBCON BPS application pool, the configuration will no longer be available and cannot be activated. Do you wish to deactivate the WEBCON BPS Authorization Service authentication provider?"



2.3. Designer Studio

Since support for IE is discontinued, the Document scan and Use ActiveX
 Plug-In Client checkboxes have been removed from the properties configuration of the Attachment panel.



3. Changes to existing features

3.1. General

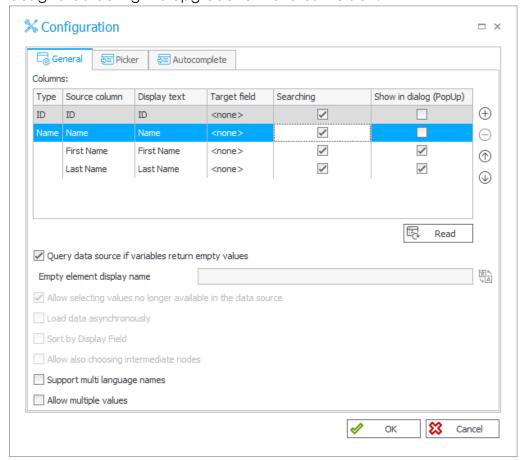
 Changed the method of searching for values in the source of the Choice field type form field when validating the entered value.

Currently, the validation mechanism checks that the data is correct in three steps:

- 1. If the option to search in the **ID** column is checked in the form field configuration, the entered value is compared (exact match) with the values of this source column. If the value is found, it is considered valid.
- 2. If the value is not found, the entered value is compared (exact match) with the other columns of the data source marked in the form field configuration as the columns in which to search for values. If the value is found, it is considered valid.
- 3. If the value is still not found, the entered value is compared with the other columns of the data source marked in the form field configuration as the columns in which to search for values. In this step, the search is performed taking into account the Search mode configuration of the form field if it is other than Exact match (e.g., Starts with or Contains phrase).



It is also necessary to mark at least one source column as a search column
in the form field configuration. This is verified when saving the configuration.
If, so far, no source column has been designated as a search column in
existing form field configurations, the ID and Name columns will be so
designated during the upgrade to the latest version.



- Changed the date format set in the SDK plugins to yyyy-MM-ddTHH: mm: ss.
- The database compatibility level will be raised to maintain compatibility with SQL Server 2012 for databases where this level is lower.
 For new installations, the compatibility level is set to SQL Server 2014 (regardless of the SQL Server version on which the databases are created).
 SQL Server 2014 is the earliest SQL Server version supported by WEBCON BPS 2022.
- For SharePoint Site Collection connections with the authentication method set to Service account, communication with SharePoint Server will be done using the account where WEBCON BPS Workflow Service is running.
 Previously, in this type of configuration, communication with SharePoint Server was done using the WEBCON BPS Portal application pool account.
 After upgrading the system, the privileges in SherePoint Server for the new account must be verified.



 Changed the scope of privileges and the dedicated database read account.

The change applies to systems where a dedicated **Database read account** was defined during installation (the account for which **SQL COMMAND** rules and all SQL queries using **Default connection** are executed).

When upgrading the system to the latest version, a database user named **BPS_User** will be created in all content databases with read permissions for selected tables and views. If a **BPS_User** user exists in the database, their privileges will be extended accordingly. The detailed scope of privileges granted to **BPS_User** is available in the dbo.proc_GrantLowPrivileges() stored procedure.

After upgrading the system, all queries performed so far by the system in the context of the dedicated **Database read account** will be executed in the context of **BPS_User**.

For newly created installations, all queries using the **Default connection** and queries executed in **SQL COMMAND** rules will always be executed in the context of BPS_User. It is not possible to change this behavior.

3.2. Portal

- The appearance of buttons in the system has been improved and unified. The change applies to e.g., buttons in pop-up windows, various scroll bars, and buttons next to choice fields.
- Due to the expansion of the chart feature in the application reports, the
 possibility of using non-numerical values in the Y axis configuration has been
 disabled. After updating the version, this report configuration must be
 manually changed.

3.3. Form

- 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.
- Updated the color picker in the Chart form field to match other color pickers in the configuration of the Application.
- Changed display of row and cell colors in reports in WEBCON BPS Portal.
 After the upgrade, it will be possible to change the saturation of the selected color in the report configuration. The set color will be accurately reflected in the report view.

Previously, the color transparency was set automatically, so that the color



of rows and cells was less saturated than the one selected during configuration.

• The functioning of Item list columns was brought in line with other form fields. The Target field option in Item list choice columns will work identically to the Target field option found in regular choice fields.
Additionally, the order in which Default values are set will now follow the order of the form fields on the form - in older versions, item list default values were set at the end.

3.4. Designer Studio

• In the Attachment details configuration of the Process Configuration, the Set on postback checkbox was removed.

This option was no longer needed because its effect is already built-in to the MODERN form by default.

The Search tab in the History of changes of a process is no longer available.

3.5. Actions

 The Change value of a single field action will now behave differently when the rule for calculating the value doesn't return any value.

The option **If there are no results: Show error**, referring to results from **SQL COMMAND** and **DATA SOURCE VALUE** functions to calculate the value, is no longer supported.

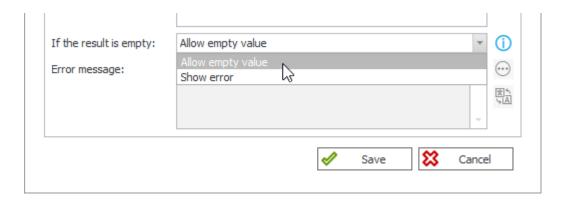
The new options: If the result is empty: Show error and If the result is empty: Allow empty value will take into account the final result of the business rule calculating the value.

If the action is configured to: **If the result is empty: Show error** and the rule returns **EMPTY**, the configured error message will be displayed.

If the action is configured to: If the result is empty: Allow empty value and the rule returns **EMPTY**, the **EMPTY** value will be set in the form field, i.e. the field's value will be cleared.

When updating to the newest version, the updated **If the result is empty:** option will be automatically set to **Allow empty value.** To recreate the old outcome, manually modify the automation configuration to include a **Condition** preceding the action. This **IF** condition should check if there are any records returned by **SQL COMMAND** and **DATA SOURCE VALUE**.





- The actions for managing BPS groups: Add/remove single user to BPS group and Add/remove multiple users to BPS group can now add entire AD and AAD groups as users to BPS groups.
- Standardized behavior of an action in the system in the absence of its
 configuration. Currently, if an action has an empty configuration (the user
 has not completed its configuration after adding the action), when the
 action is launched, it will cause an error, all changes made as part of the
 automation will be withdrawn, and the error handling automation will be
 launched.

Until now, the behavior of an unconfigured action depended on its type: the action could end with an error, be correctly executed with the logging of information about missing configuration, or be executed with the default configuration.

3.6. Automation transaction improvements

A series of changes were made to the transaction mechanism in which actions are executed. The objective was to simplify the action execution logic to a point where most available actions could be used inside the **For each** loop, and make use of the **Parameters** of an automation.

Changes and affected actions:

The only action that still has the **Execute outside the transaction** option is the **Read a barcode action**.

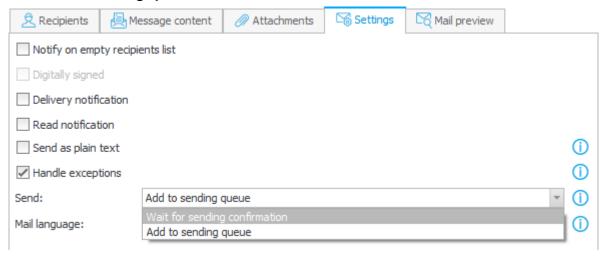


All actions can now reference the variables found in the **Parameters** of an automation (local, output, and input) in their configuration. The only exception is the **Read a barcode** action with the **Execute outside the transaction** option enabled.



In the **Send a custom e-mail** action:

- The Send immediately option was replaced with Wait for sending confirmation.
- The Execute outside the transaction option was replaced with Add to sending queue.



3.7. Rules

- Changed the behavior of the SUBSTITUTES OF function in business rules. If the SUBSTITUTES OF rule is executed within the same transaction (automation) as an Add substitution action, the rule will not include substitutes added with this action. The rule will return the current list of substitutes only after closing the transaction (i.e. successfully completing the automation). Additionally, it is important to note that automations triggered On exit from a step, On path, and On entry to a step are all executed in the same transaction. Therefore, the SUBSTITUTES OF rule will return the updated list of substitutes after the On entry automation is successfully completed.
- For form rules in JavaScript mode, the MOVE TO NEXT STEP function will now behave differently. From now on, when the path transition using the MOVE TO NEXT STEP function fails (e.g. due to FALSE being returned by the Additional path validation form rule), it will return Promise.resolve(false).



4. Security fixes

4.1. Security fixes

 Upgrade of System.Text.RegularExpressions to version (4.3.1) due to vulnerabilities: CVE-2019-0820 and CWE-400

https://snyk.io/vuln/SNYK-DOTNET-SYSTEMTEXTREGULAREXPRESSIONS-174708

Upgrade of NuGet.CommandLine to version (6.2.1) due to vulnerabilities:
 CVE-2022-30184 and CWE-200

https://security.snyk.io/vuln/SNYK-DOTNET-NUGETCOMMANDLINE-2871345

 Upgrade of System.Text.Encodings.Web to version (4.7.2) due to vulnerabilities: CVE-2021-26701 and CWE-94

https://snyk.io/vuln/SNYK-DOTNET-SYSTEMTEXTENCODINGSWEB-1253267

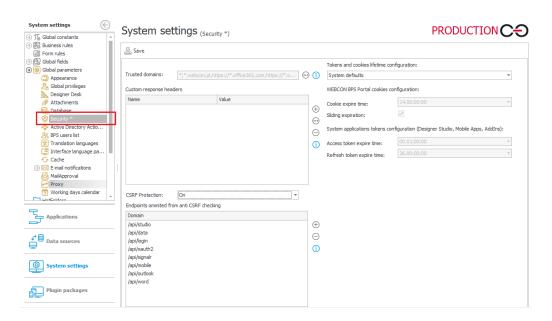
 Upgrade of Newtonsoft. Json to version (13.0.1) due to vulnerability: CWE-755

https://snyk.io/vuln/SNYK-DOTNET-NEWTONSOFTJSON-2774678



 The new Security node in System settings of WEBCON BPS Designer Studio houses the configuration of protection against CSRF attacks (Cross Site Request Forgery, XSRF), and the option of setting up a list of exception endpoints (i.e. trusted domains) that will not be checked for CSRF vulnerabilities.

Other security-related settings that were previously found in the main **Global parameters** node have also been moved to this new **Security** node.



Protection against CSRF works by checking the Origin and Referrer headers in POST invocations from the user's browser. A correct configuration will protect all endpoints where a user is authenticated based on cookies provided by the browser.

Checking these headers will be omitted for endpoints relying on token authentication. The list of exceptions will contain such endpoints.

Added protection against HTML script injection on Portal.

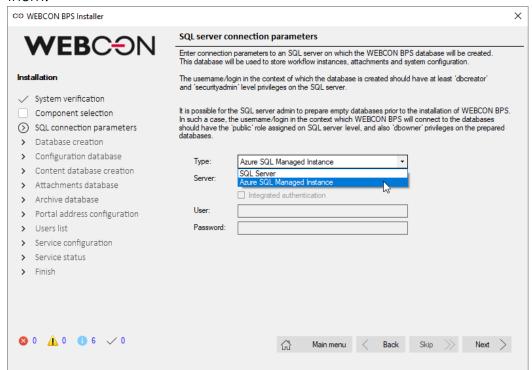


5. New features

5.1. General

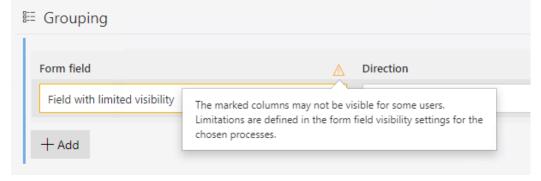
 Introduced the ability to use Azure SQL Managed Instance as a database engine. Users can now select Azure SQL Managed Instance as a database server in the WEBCON BPS installer when configuring database connection parameters.

In this installation mode, it is necessary for the **Azure SQL Managed Instance** installation to have previously created empty databases (configuration, content, attachments). The names of these databases should be indicated in the next installation steps. The installer will create the desired structure in them.



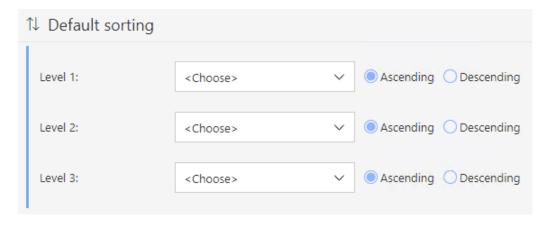
5.2. Portal

 In the Grouping configuration of a report, form fields that have some sort of visibility restrictions defined in their Visibility tab will now be denoted like so:





- Added the ability to group data in SQL and SOLR reports according to the third grouping level. Changes made:
 - 1. Deleted the **Show empty value** option an empty value will always be displayed.
 - 2. It is not possible to save the configuration if a user added the grouping level, but did not select the value by which the data will be grouped.



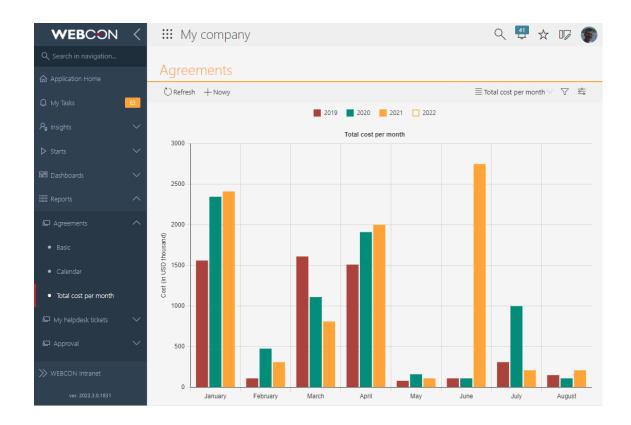
5.3. New charts in the application reports

The latest version of WEBCON BPS introduces many new features regarding the chart view in application reports.

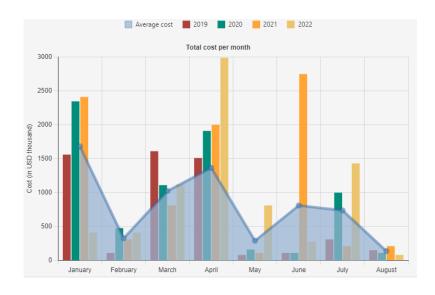
Data series

The ability to define multiple data series presented in a single report view has been introduced. Data displayed in series can be dynamically shown or hidden by clicking on the series name presented as a chart legend.



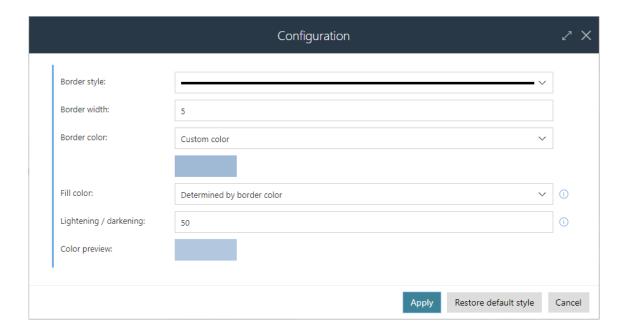


The **Chart type** can be independently defined for each series, and bar and line charts can be combined in one view.

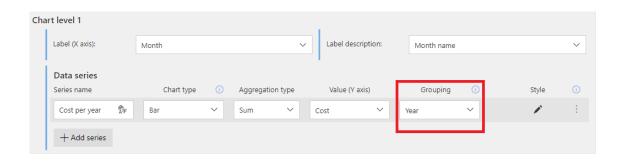


Each series can have an **independently defined appearance**. Depending on the chart type selected for the data series, custom configuration allows to define: color (including the ability to specify lightening/darkening), line thickness, border style, border width for bar and pie charts, and fill color.





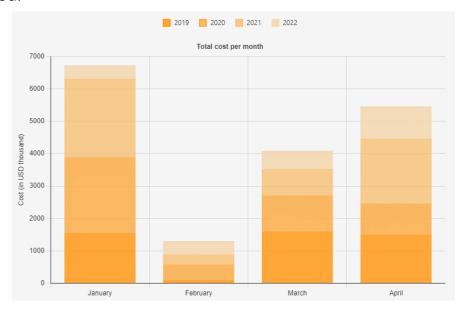
Users now have the ability to specify **grouping for a single series.** With this feature, data can be presented in series whose number will increase with the increasing amount of data recorded in the application. For example, defining grouping by year for a series that shows the total amount of orders placed in a month will cause the chart to automatically draw a series for each year. Entering order data in the next year will automatically draw data series for the next year, without the need to change chart configuration.



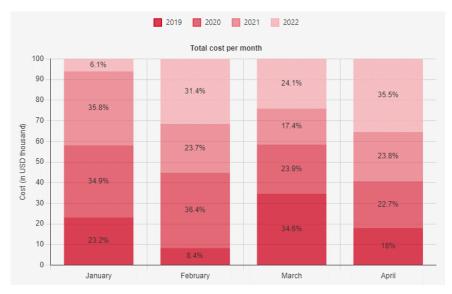


New chart types

Stacked bar chart displays data in the form of bars where data series are combined.



Stacked percentage bar chart displays data in the form of bars whose height is 100%. Depending on its value, each data series takes up a certain percentage of the bar.

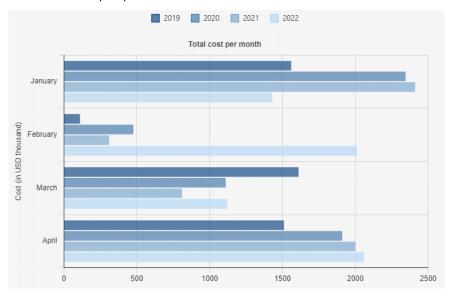


Floating bar chart. In the case of this chart, the minimum and maximum values of the group are calculated. The pair of numbers calculated in this way is presented in the form of a bar. Using aggregation other than min/max is not possible here.





Horizontal bar chart displays data in the form of horizontal bars.



Additional options for configuring the appearance of charts

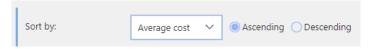
The newest version introduces the ability to independently define the **value displayed as the chart's X axis label**. With this configuration, it is possible to present alternative text corresponding to the X axis values (e.g. textual display of the name of the month corresponding to the date on the X axis, which, after additional configuration of the report's calculable column, returns the text value in the form of the name of the month).

By default, the label text is the value for the X axis.





In each chart view, it is possible to configure the **sorting of data by the selected series or the X axis value**. The exceptions are series containing configured grouping. In that case, data are always sorted in ascending order by the X axis value.

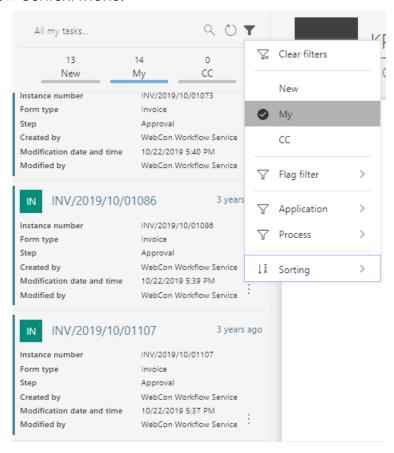


The chart view also allows to specify whether the legend will be shown or not as well as its position.



5.4. Filtering options on the Task list

Expanded the filtering options on the Task list. Clicking on the filter icon will expand a new context menu:





This menu contains all filtering options that were available previously: Assignment (New, My, CC), Flag (Flagged, Postponed, Overdue) as well as Application and Process – depending on whether the task list is being viewed from the Portal main page or in the context of an application.

There is also a search function above the task list, which allows the user to quickly narrow down their tasks to a searched phrase.

NOTE: These changes do not apply to the task list in the Outlook Add-In.

5.5. Default user avatars

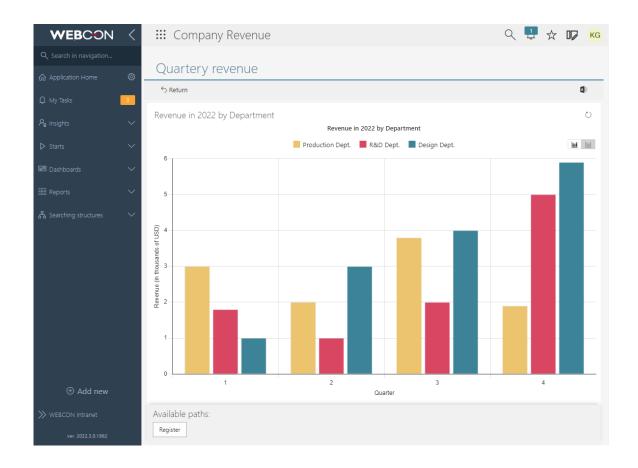
Added display of default avatars for users who do not have their own profile picture. The avatar will contain the user's initials and will appear if the display name is at **least two letters** long.





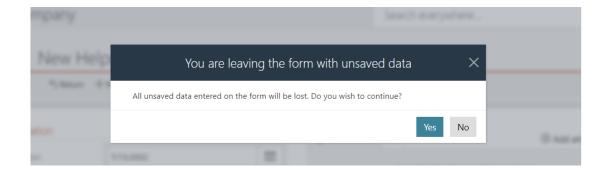
5.6. Improved Chart form field

After the system upgrade, users will be able to set the same color scheme for both the **Chart** type form field and the chart type view on reports. The appearance of the **Chart** form field control on the form has been changed. The configuration of the form field remains unchanged.



5.7. Protection against leaving the form without saving changes

A new mechanism has been added to WEBCON BPS Portal to prevent the user from leaving the form with unsaved changes. The user will be informed that unsaved changes will be lost.



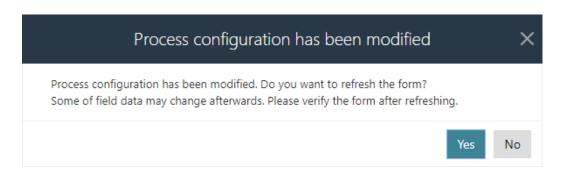


5.8. Form

- Added functionality of automatically expanding/collapsing the list of attachment categories. By default, the list with available categories will be collapsed except when:
 - there are less than 4 attachments on the list
 - the **Expand default category** option in the attachment configuration is selected.
- Introduced an alternate coloring of the item list rows for user-defined configuration of the item list appearance in the For whole row mode.
 Currently, based on the user-defined color, the system will lighten or darken the color of every second row of the item list on the form.
- Added protection against losing unsaved data on the form in the event of
 the process configuration being modified in the middle of the user's work.
 Whenever the configuration of the process is updated, the user will always
 need to refresh the form before being able to continue. However, this
 mechanism ensures that unsaved data on the form will remain after
 refreshing the form.

After refreshing the form and loading the new configuration, the user will be able to continue their work normally, unless changes to the configuration modified the visibility restrictions of fields or altered rules that calculate field values.

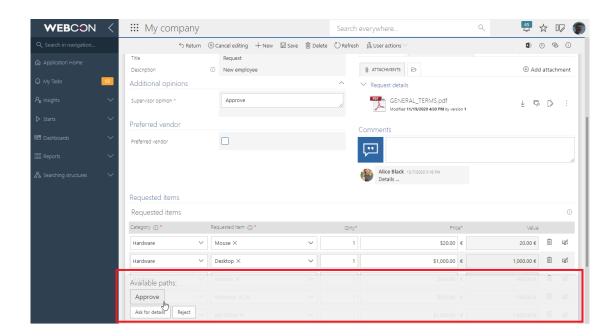
The user is notified about process changes with a pop-up message so that they have a chance to react.



5.9. Path panel anchored to the working area of the screen

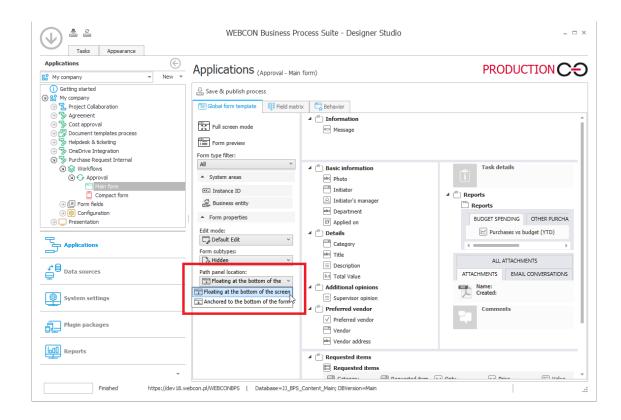
The path panel available at the bottom of the form can now be anchored to the working area so that it is always visible to the user.





The way the path panel behaves on the form (it should be anchored at the bottom of the form or to the working area) is configured in WEBCON BPS Designer Studio. The relevant options can be selected in the **Global form template** configuration by setting the **Path panel location** parameter.

The **Path panel location** parameter can be independently defined for the mobile view of the form and for the form at each step.

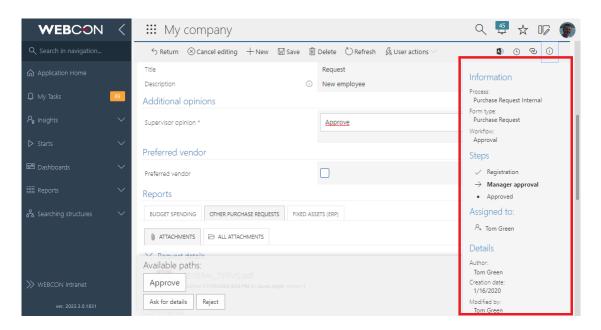




For newly created workflows, the path panel will always be **Anchored to the form** by default.

5.10. Independent scrolling of the contents of the form information panel

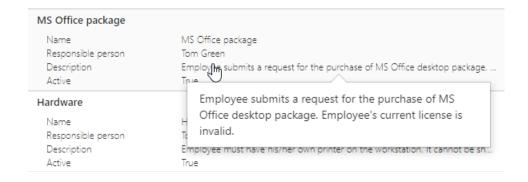
The panel is scrolled along with the form until all its contents are shown. Once this threshold is reached, the information panel remains docked so that its contents can still be seen despite further scrolling of the form.



5.11. Tooltips on the form's picker fields

An enhancement has been introduced in WEBCON BPS Portal to make the section list items on the form more readable. For longer values of the form fields configured in WEBCON BPS Designer Studio, for example, as **Autocomplete**, the values often did not fit in the list and were not fully displayed.

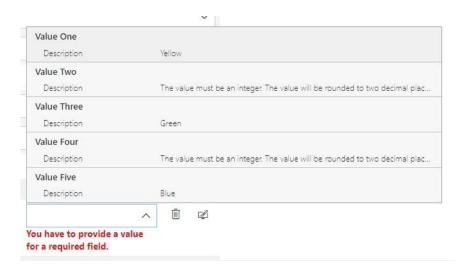
Now, after hovering the cursor over an item, a tooltip containing its full value will be displayed.





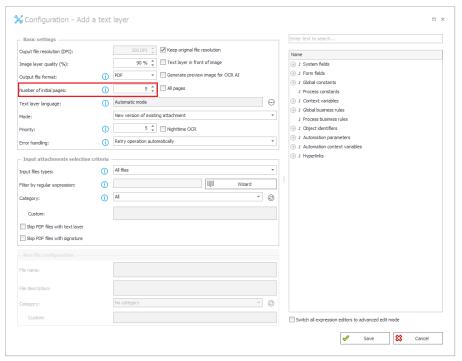
5.12. Variable width of the drop-down list in columns and picker fields

Introduced the option to dynamically calculate the drop-down list width in the columns and **Picker fields**, depending on the content and screen width. For larger contents, information that previously did not fit on the right side will be displayed on the left side of the drop-down list when the control is clicked.



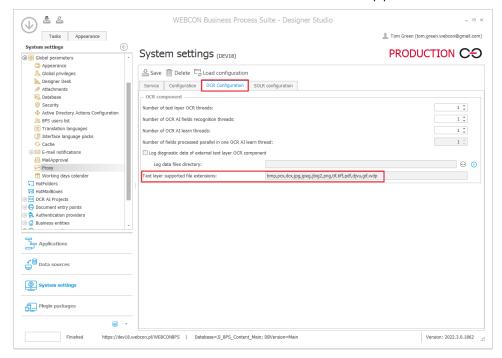
5.13. Expanded Add a text layer action

WEBCON BPS Designer Studio users, who want to configure the **Add a text layer** action, now have the ability to define the number of pages from the start of the document that will have the text layer created. This applies to files that contain pages, for example, with a .pdf or .tiff extension.

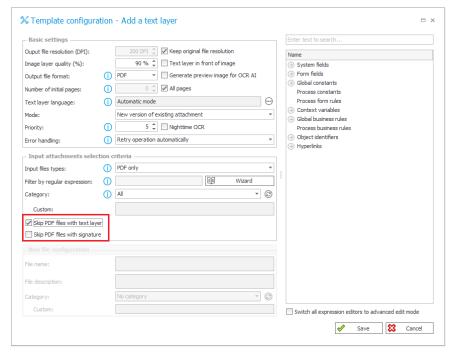




Additionally, the system has been expanded to include the **OCR Configuration** tab in **System settings**. The new tab contains some of the options previously available in the **Configuration** tab, as well as a new option **Text layer supported file extensions**, which allows to check the extensions of supported files.



After going to **Template configuration – Add a text layer**, users can decide whether the action will also be performed for .pdf files that already have a text layer or signatures. This is possible by checking/unchecking the new options: **Skip PDF files with text layer** and **Skip PDF files with signature**.

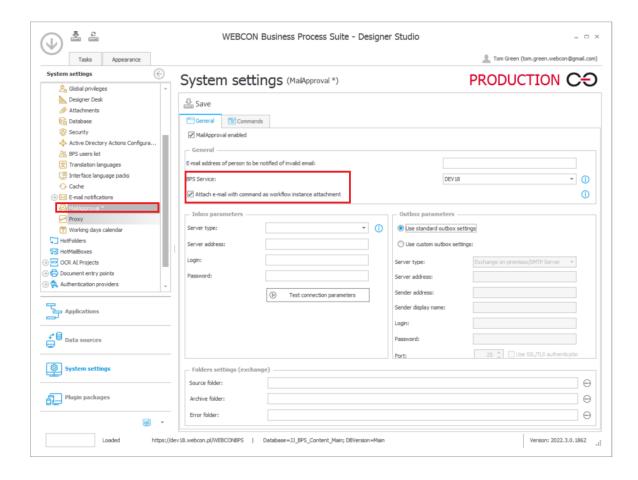




When these options are checked, the action execution log will show that action execution was skipped for such files.

5.14. Adding e-mail with MailApproval command as an attachment

Added the ability to attach an e-mail message with a command that triggered saving a document or following the **MailApproval** path. The message will be added to the workflow instance as an attachment.



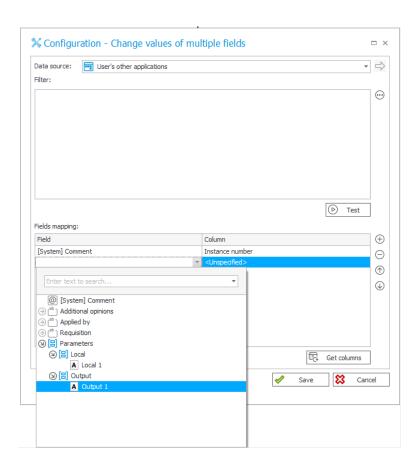


5.15. Collection columns of the For each operator are now available in the action Change values of multiple fields

The latest version of WEBCON BPS Designer Studio introduces additional options for displaying parameters for the **For each** operator after configuring automation.



From now on, in the action **Change values of multiple fields** in the **For each** operator, it is possible to change values of the automation parameters and columns of the item list after which an iteration starts.

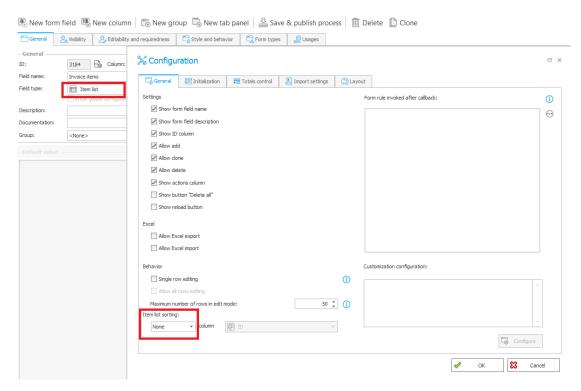


5.16. Option to disable sorting in the item list and data table

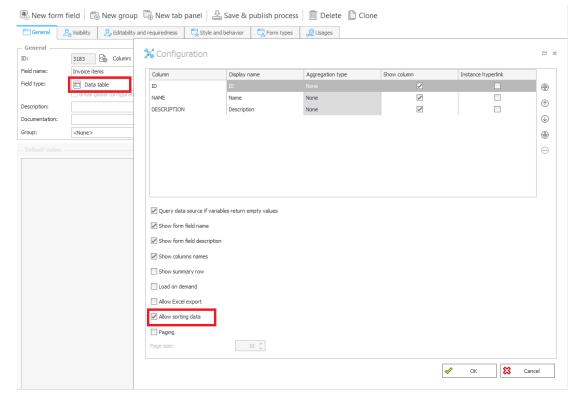
The **Item list** and **Data table** form fields now have the option to disable sorting. When **None** is selected for item list sorting, or when **Allow sorting data** is



unchecked for data table, a user will not be able to sort data on the form – data will always be displayed in the order in which it was returned from the source.



Item list



Data table



Also, if a row is cloned in the item list, the new row will be placed below the original row and will not be moved to the end of the list when saved.

5.17. Designer Studio

HotFolders and HotMailBoxes have gained a new configuration option:
 Number of attempts to add a file to a workflow instance.

After processing a file, if an error occurs when attempting to add it to an existing workflow instance or on path transition, the system will make further attempts to repeat the operation. This parameter specifies the maximum number of additional attempts. If the **WEBCON BSP WorkFlow Service** is interrupted, the attempt counter will reset, and the files must be processed again. The time between attempts is calculated from the moment the previous attempt failed, and it is 1 minute for the second and third attempts, 1 hour for the fourth attempt, and 1 day for the fifth and all further attempts.

HotFolders have gained a new **Advanced settings** tab. The new option has been added here, along with some existing options that were moved to the new tab from the **General** tab.



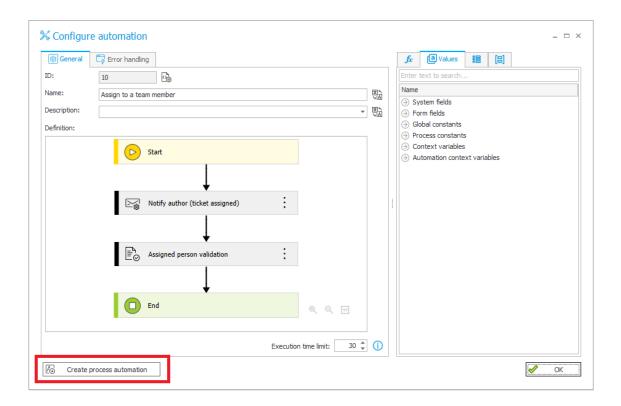
Configuration options in **HotMailBoxes** are now located in the existing **Advanced settings** tab.

5.18. Automations – ease of configuration

Added a series of improvements to the configuration of automations.

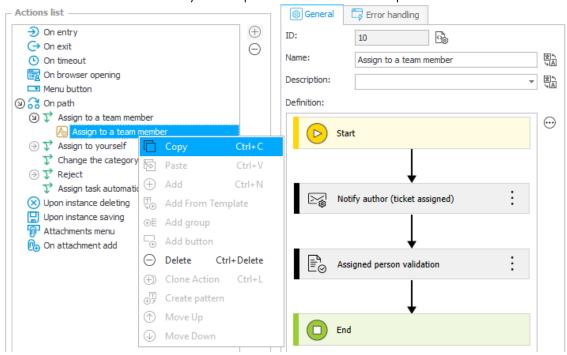
• **Create process automation** – a button analogous to the one for business and form rules, it transforms the automation configured within a workflow into a process automation.





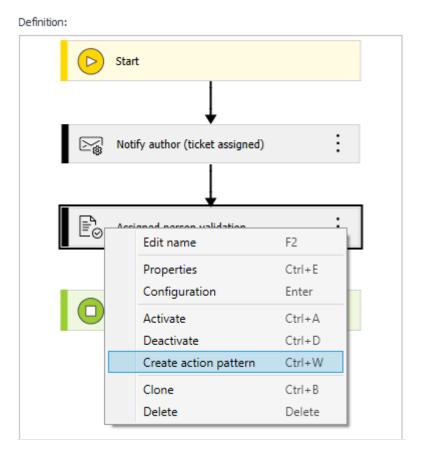
• **Copying automations** – used to copy an entire automation definition and paste it to a different trigger.

Automations can only be copied within the same process.



• Create action template – directly from the automation, found in the context menu of an action block.



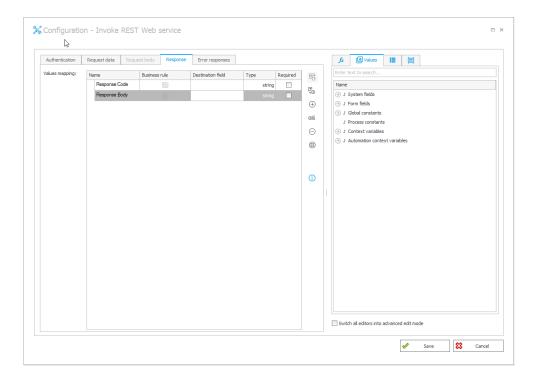


• Cloning within an automation – the clocks that comprise an automation (i.e. actions, conditions, loops, action templates, and other automations) can now be cloned from their context menu.



5.19. Default rule content for the action Invoke REST Web service

The **Input value** parameter will be the default value of the newly created rule in the configuration of the **Invoke REST Web service** action in WEBCON BPS Designer Studio.



When configuring a new rule in the **Request data** and **Response** tabs, the **Input value** parameter will be the value automatically entered in the mapping sections.

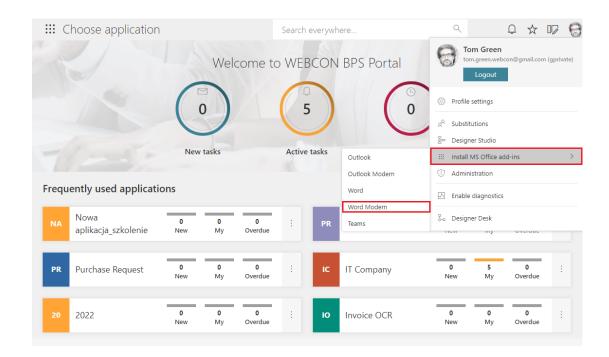




5.20. Word Modern available in WEBCON BPS

WEBCON BPS introduces the ability to use the **Word Modern** add-in for **Microsoft Word Online** and **Microsoft 365 Word**.

A manifest file that allows to install the add-in in the selected application is available in WEBCON BPS Portal user menu.



Availability

Word Modern will be available for use in Word for Microsoft 365 packages (desktop client) and Microsoft Office Online on Windows and macOS. For other local versions of MS Word, proper operation of Word Modern will depend on whether the application uses Microsoft Edge WebView2 or not.

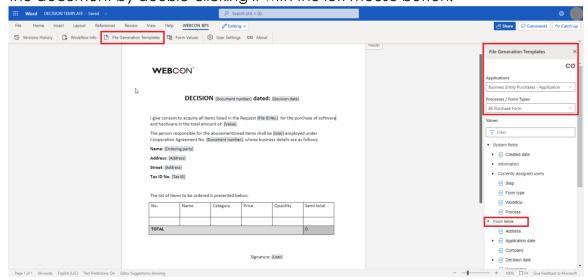
Detailed information on this subject is available on WEBCON Community.



Operation

Once installed, the add-in requires no additional configuration. It automatically connects to the WEBCON BPS environment for which the manifest file was downloaded.

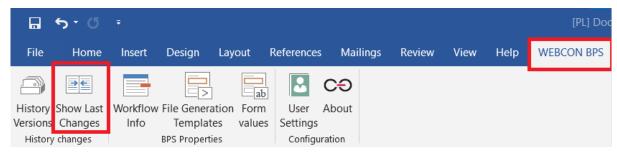
The operation of Word Modern differs slightly from that offered by the Word Classic add-in for Microsoft Word desktop applications for Windows. The **File Generation Template** option allows to create templates for .docx files that will contain data defined on a form in WEBCON BPS Portal. On the panel that appears on the right, the user should select the preferred **Application** and **Processes/Forms**, as well as the form field and apply it to the desired place on the document by double-clicking it with the left mouse button.



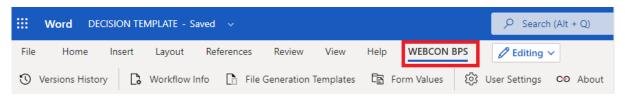
The document template prepared using the Word Modern add-in is the input template for the WORD file generation action configured in WEBCON BPS Designer Studio. With both these tools, it will be possible to prepare Word documents based on the created templates. Such documents can be added to the process in WEBCON BPS Portal as attachments and set to be automatically generated based on the data displayed on the form.



The features offered by the add-in have changed. For Word Modern, the **Show Last Changes** option is no longer available.



Word Classic



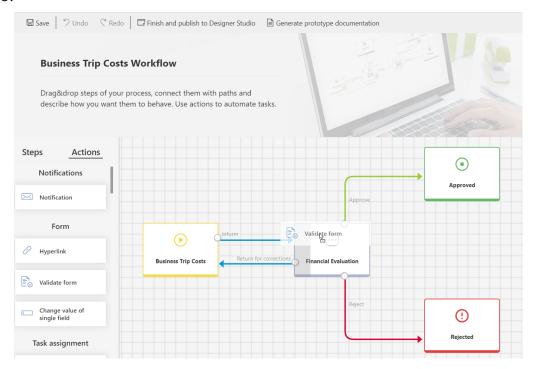
Word Modern



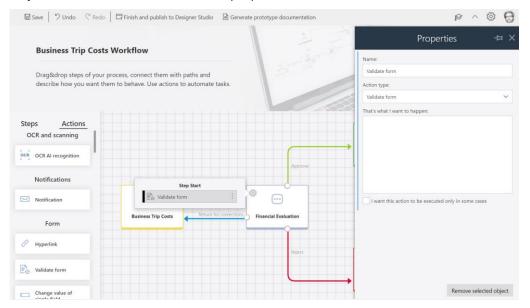
5.21. Actions on a step in the workflow designer of Designer Desk

WEBCON BPS Designer Desk has been enhanced with a new feature related to workflow design. It is now possible in the **Designer** tab to add actions on the input and output of a step, regardless of its type.

To add an **Action**, drag and drop it onto the selected step from the right or left side.



Once the action has been added, a cogwheel icon appears on the step and the **Properties** window automatically opens, which needs to be filled out.

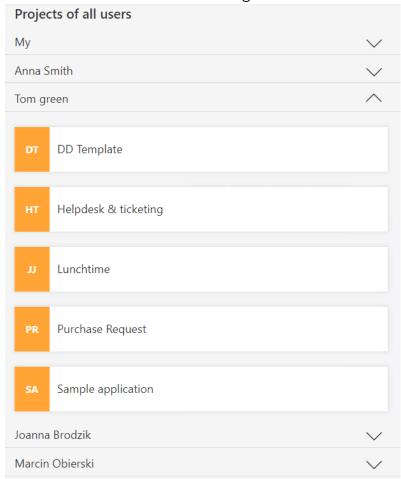


Action configuration information will be available in the documentation generated for the prototype.



5.22. Designer Desk

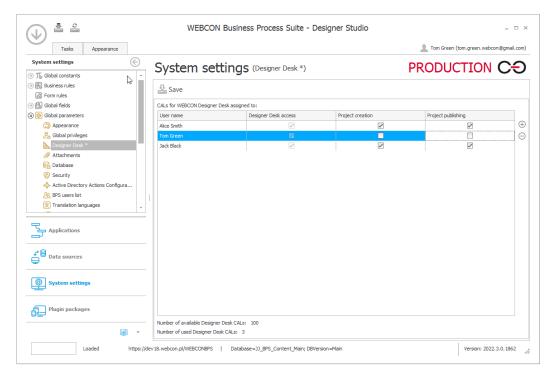
 Designer Desk Projects will now be grouped by author in WEBCON BPS Portal interface for easier browsing.





5.23. Extending privileges in WEBCON BPS Designer Desk

Introduced the ability to specify user privileges to create and publish prototypes in WEBCON BPS Designer Desk. Licensed users have these privileges by default. User privileges can be edited in WEBCON BPS Designer Studio in **System settings**, via the public API, and in the Cloud installation by editing users in the admin panel.

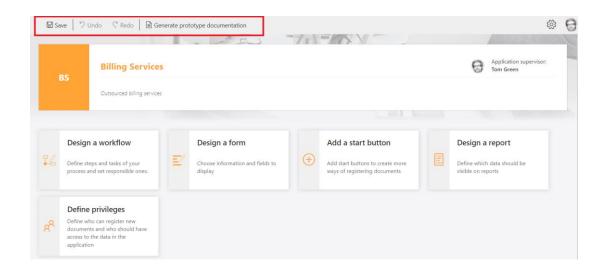


When **Project creation** privileges are revoked, the **Create new** and **Delete prototype** as well as **View tutorial** buttons will not be visible to the user in WEBCON BPS Designer Desk.





After revoking the **Project publishing** privileges, the user will not see the **Finish and publish to Designer Studio** button.



5.24. API

- It is now possible to use **Customization of form field controls (SDK)** for **Integer** type form fields.
- The public API now has GET /api/data/beta/search and GET /api/data/beta/db/{dbld}/applications/{idguid}/search endpoints to search for items in SOLR.



6. Bug fixes

6.1. General

- Improved passing of the collection column values in the **For each** operator to actions using business rules. In the previous version of the system, the collection column values of the **For each** operator were not passed.
- Descriptions in the import wizard have been reformulated to better imply that the actions have not yet been performed:

Added -> Will be added
Updated -> Will be changed
Deleted -> Will be deleted

 Fixed an issue with floating-point number formatting in the Search everywhere feature of Portal.

For example, a floating-point value of 123.00 should be shown as 123.00 in the search tags. It would sometimes include decimal precision and be shown as e.g. 123.000000.

- In the WEBCON BPS installer, in the **Tools for application management** section, the application pool account will be shown.
- Improved the error messages from testing the connection to an Exchange server.
- The BPSID (user identifier) may not contain; or # characters. Improved BPSID validation in WEBCON BPS Designer Studio, WEBCON BPS Portal, and public REST API to ensure that the BPSID of a newly added user does not contain forbidden characters.
- Fixed an error preventing export of dictionary process. The error was caused by the incorrect addition of attachments to the instances of the dictionary process.
 - Introduced an option to check the possibility of adding attachments to the dictionary process and the document template process.
 - Currently, if attachments are added to items from the dictionary process in the source environment, they will not be exported. As a result, no errors will occur when importing the process in the target environment.
 - Additionally, the system will check that the document template process contains exactly one template.
- Fixed an issue that occurred during system installation. The problem involved privileges not being assigned automatically when using an option different from **Use application pool account**.



- Fixed an error that occurred when starting a sub-workflow using the Start a
 subworkflow or Start a subworkflow (SQL) action if the SDK control was
 configured in the workflow. The error resulted from unnecessary validation
 of the SDK control in the start step the error occurred when the control was
 visible on the form only in the next steps, and in the start step it was not
 visible on the form.
- Fixed an issue where .xml logs were downloaded to the import history only after clicking on the change history preview or export to file.
- Fixed an error that occurred when a user created a new global constant in
 System settings and then tried to delete it.
- Corrected inappropriate display of WEBCON BPS version number during automatic WEBCON BPS Designer Studio update.
- Fixed an issue with the substitutions mechanism where assigning a substitution in a specific process would also automatically grant it for the entire application.

6.2. Portal

- After switching views in a report, the instance counter next to grouping
 options would appear "selected" and suggest that grouping is active (even
 though all instances were shown) after switching views, the icon next to
 grouping options will be "deselected".
- Length of the @currentloginname parameter in the SQL query for reports in WEBCON BPS Portal has been changed from dynamic to fixed and set to 255 characters.
- Fixed several issues in report filtering so that filters work identically in reports using both **SQL** and **SOLR** data sources.
- Fixed an issue with search results in WEBCON BPS Portal if an exact match to the search phrase is not found.
- Fixed an issue that prevented to take the quick path on several workflow instances at the same time from the report level.
- Deleted an unnecessary margin when editing the dashboard name.
- For some types of filters (columns, step, workflow, form type, form subtype) in the reports, tooltips have been added in the form of the name of the parent element e.g. for the workflow, it will be **Process name**, and for the step: **Process name->Workflow name**.



- Fixed an issue that occurred in reports when attempting to switch views after a period of inactivity in the browser tab.
- Fixed an error that occurred when a new user entered WEBCON BPS Portal for the first time.
- Optimized closing of the instance form. Removed unnecessary references to quit the form if the form has already been closed or the browser has been refreshed.
- Fixed an issue that prevented choice fields from setting read-only HTML columns in the item list. After the update, as with form fields, choice fields in the item list will always set dependent fields, even if they are read-only.
- In Chart type report views, fixed an issue that prevented users from
 navigating from a chart level into a Detailed data table level if the selected
 label column (X-axis) was a date.
- The user will now receive a clearer notification if their check-out of an instance is removed (checked in) by an admin.
- Count aggregation in reports will not be displayed as a floating-point number.
- Fixed an issue with Last 10, Last 100, and Last 1000 filters not working on chart-type views in reports.
- Fixed an issue with how the context variable Current user: Login was passed
 to reports that had the option to view the report from a subordinate's
 perspective enabled.
- Resizing configuration windows (e.g. row color configuration window in reports in Portal) will also change the size of the options inside the configuration window.
- Fixed an issue in the Search Structure report when the Choice field type
 form field was used in the structure definition. The total number of elements
 at the selected structure level and the total number of available pages are
 now correctly returned.
- Fixed an issue preventing the document template from being reimported in WEBCON BPS Portal. The user who deleted a template was not able to readd it from the .zip file. Deleted document templates can now be reimported.
- Fixed an issue that prevented multiple instances from being moved using quick paths from report level - only one of the selected instances was moved.



- Fixed an issue that caused incorrect filtering of search results in WEBCON
 BPS Portal after pressing Back in the browser window. After going to a
 workflow instance, the results were limited to the context of the application
 from which the opened instance originated.
- Fixed an issue where toolbar buttons of application reports would be missing the bottom highlight border when focusing on them.
- Date columns in reports will now correctly take time zones into consideration.
- If a Task column was included in a report, the color of the icons in this
 column would be blue they will now use the correct font color for the
 chosen Portal theme.

6.3. Form

- Fixed an issue on the form that occurred when selecting and dragging values from a **Choice field** type form field in **Dropdown** mode.
- Fixed an issue that prevented empty values from being imported to an Item
 list from Excel.
- Improved scaling of icons next to choice fields.
- Fixed an issue that occurred when canceling editing on Item lists containing choice columns.
- In the configuration of the **Autocomplete** column of an **Item list**, the **Show link to selected workflow instance** option has been fixed.
- Fixed an issue where notifications from Item lists would return incorrect row numbers when reporting an error - this was caused by the fact that the row numbering in notifications would sometimes not take into account row sorting or grouping.
- Fixed an issue with forms viewed in Safari triggering actions that modified attachments (e.g. Update a Word file) would unintentionally remove a user's check-out of the instance.
- Improved the behavior of attachments on the form overwriting an attachment will leave the description intact. Adding and removing attachments in the same step will be represented in the instance history.
- Improved data formatting on labels in chart-type views of reports they will correctly display decimal places.
- Fixed an incorrect display of rotated attachments (e.g. screenshots) in the miniature. If a user rotates the added attachments, the rotation will be



included in the attachment preview on the form, while the rotation will not be included in the created miniature.

- Fixed the effect that MARK REQUIRED / MARK NOT REQUIRED rules have on item list columns using the single-row edit mode.
- Fixed an issue with viewing additional details on the instance history in some cases the history would cause JavaScript errors.
- Fixed an issue that caused the command Select attachment category to be displayed in a language other than the one selected in the user panel when attaching a document to a form in WEBCON BPS Portal. After the upgrade, the command translation is consistent with the language version set in the Portal.
- Fixed an issue that caused improper formatting of the date in the Date and time column when it was set via the Target field column after selecting Popup search window.
- Fixed an issue with attachment validation on workflow instances. Previously, in the case of the Item list form field for which the Local attachments column required in the start step was added, after going to the next workflow step, the message Attachment not found appeared despite adding an attachment.

6.4. Designer Studio

- Fixed an issue caused by old translations of application Group names not being removed during import.
- Fixed an issue preventing WEBCON BPS Designer Studio from being launched on fresh installations where the **Synchronization source** is set to NONE and the **WEBCON BPS WorkFlow Service** is inactive.
- Generating process documentation will correctly replace variables.
- Fixed an issue that, in specific cases where the character size of files in SDK packages did not match, caused an exception when saving the package.
- Fixed an issue when the edit button was available in the configuration of the Choice list form field despite the lack of data. After the upgrade, the edit field will only be available if at least one answer is added.
- Fixed an issue with the variable returning the last comment in the case of Multiple lines of text form fields using Append mode.



- Fixed an issue resulting from leftover translations in the database deleting objects with translatable names/descriptions would not remove all translations from the database.
- Fixed an error where an archive database was defined in the process but did not exist in the environment.
 In the Settings tab of a process, in the Archive section, the Archive database setting would reset itself to <None> without indicating to the user that changes were made to the process (i.e. no asterisk next to the process node).
- Optimized the query for getting the instance ID in the process context for WEBCON BPS Designer Studio. The query is used when e.g. editing a rule or expression.
- Fixed an issue with the save process in WEBCON BPS Designer Studio if multiple processes were expanded at the same time, the configuration area of Designer Studio would unnecessarily get refreshed once again.
- HotMailBox updated the description of the Attachments to be processed configuration option. Improved the notification received when incorrectly mapping the sender system field value in the Restriction of supported email sender list configuration.
- In the process documentation generated from WEBCON BPS Designer
 Studio, advanced filters of data sources were not included correctly after
 this fix, variables will be substituted and colored as intended.
- The **Environment settings** dropdown in the **System settings** will now have a fixed size.
- HotMailBox and HotFolder added an icon next to the service and source directory configuration fields to inform the user that these fields are required.
- Fixed an issue where the user editing the process was not saved in the
 History of changes of a process (the service account name was shown
 instead of the username).
- The message "Failed to establish a connection with the attachment database" has been added when a non-existing attachment database is selected in the process.
- Fixed an error where a workflow could not be cloned in the process. The
 error appeared if the process contained translated elements that were not
 related to the cloned workflow (e.g. form fields).



- Fixed an error where the process could not be exported.
 The error was related to incorrect handling of translations of text fields whose values were left blank.
- Improved the Search logs feature in the Administration tools fixed an issue with downloading compressed action execution logs.
- Fixed an issue with filtering OCR AI values using a **BPS internal** view/Dictionary/Document template data source.
- Optimized the creation time of a custom OCR AI field in OCR AI projects that contain many custom networks.
- Fixed an issue with duplicate GUIDs when Importing a ZIP file containing document templates into a **Document template process**.
- Fixed an error that prevented the deletion of a Workflow even if it was being used in the configuration of a BPS Internal view data source.
- Fixed typos in HotMailBox context help.
- Fixed an issue with saving Global fields. Additionally, when saving global fields, the progress window shown will be the same one as in the Application tab.
- The configuration window for **Data table** form fields has been increased in size to 850 by 600 pixels.
- Fixed an issue that allowed Global fields with erroneous configurations to be saved.
- Exceeded license limit in the Cloud installation prevented adding other licenses. The error has been fixed.
- Removed the Windows authentication button from the WEBCON BPS Designer Studio login window.
- Increased the width of the Update tasks for substitutes button in the Global parameters node of the System settings tab.
- Improved the efficiency of HotMailBoxes that use Microsoft Graph
 Authentication installation with a large number of configured
 HotMailBoxes would sometimes encounter the "Application is over its MailboxConcurrency limit" error.
- Fixed an issue that caused translations in global form fields to not be deleted correctly (they would return after restarting Designer Studio).



6.5. Form fields

- Multiple lines of text reduced the font size when using the Block quote option in the rich text editor.
- Fixed an issue that caused WEBCON BPS Portal to stop working if there was a **Data row** form field that had a filter referencing the same form field.

6.6. Actions

- Fixed an issue with the Generate/update Word file and Convert Word to PDF
 actions that would cause attachment categories to be generated
 incorrectly. The category value was not being saved in BPS format
 (ID#name) as the system requires.
- Extended the information about error logs for the **Printout a barcode label** action.
- Extended the log information for the Sign an attachment action if there are no attachments to be processed.
- Added support of errors that appear if the process database is empty (no elements in the process) during: - the configuration of the condition to execute the action (SQL query) - the configuration of the action used to archive instances
- Fixed an error when executing the **Verify attachment's signature** action for attachments in PDF format.
- PowerShell actions improved the handling of service operating memory after executing PowerShell type actions.
- Improved the efficiency of the Add privileges action in cases where the configuration attempts to add privileges to inactive users.
- Fixed a typo in the action Verify attachment's signature.
- Fixed an issue caused by copies of an action being used in many automations.
- SDK actions will now correctly receive variables from the automation.
- Fixed an issue in the **Invoke REST Web service** action that caused a different authentication type to be used than the one selected in the configuration.
- Fixed an issue with copying Automations between steps.



• In the **Manage users** action, if there is an attempt to edit a variable that cannot be modified, the following message will be displayed: "Manage Users" action cannot update name of the Active Directory object.

6.7. Rules

- Added handling of the Row ID variable in form rules this variable returns the ID of an Item list row from the database (DET_ID column, WFElementDetails table).
- Fixed an issue with the **SET** rule when used to copy multiple values from a choice field. The error caused the rule to copy the first value from the field and insert it multiple times in place of other values.
- Fixed an issue of ...on value change form rules not being able to clear values from the form field that triggered it.
- Fixed an error where when a user wanted to change a rule created in form mode to a rule created in JavaScript mode during form rule configuration both rules were retained when saving. After the fix, the form rule from the currently selected mode will be saved.
- The error log information has been extended when the default value business rule for a form field returns EMPTY.
- Fixed an error where in a business rule returning JSON data (from an SQL command), the response was truncated.
- SET CONTROL STYLE and SET LABEL STYLE functions will now work correctly
 when used in global form rules (they worked correctly in process form rules).
- The Underline option in SET CONTROL FONT DECORATION functions will now work correctly.

6.8. Data sources

- Fixed an issue that blocked the response from being loaded for REST actions and data sources when using Oauth2.App authentication.
- An error occurred in BPS internal view data sources that required the user to save the configuration to resolve it - these problematic data sources will now have an asterisk next to them to prompt the user to save them.
- REST type data sources will now be able to handle collections that have different structures in each row.



- If a BPS internal view data source obtains data from a Date and Time field, the time will only be passed when it can be configured in the form field until now, the form field would pass 00:00 to the data source if time selection was not enabled.
- In the configuration of reports and BPS internal view data sources, fixed an issue with filtering form fields by form types.
- Fixed the erroneous list of completed user tasks indexed in the SOLR index.
- Fixed migration script 6211, which caused exceptions in the case of an incorrectly configured filter.

6.9. Add-In

• Fixed an issue with the Outlook Add-In that occurred when remotely connecting to a machine w Windows Server 2016.

6.10. Mobile app

- When using the iOS mobile app, the contents will now refresh correctly if the connection to WEBCON BPS Portal is temporarily lost (e.g. network error or WEBCON BPS update).
- Adjusted distance between the names of form fields (labels) and their values (controls) on the compact (mobile) form.
- Fixed an issue with SOLR indexation that caused incorrect attachment modification dates to be indexed.
- Fixed an issue with refreshing the portal view in the iOS mobile app after the access token expires.

6.11. Service

- Optimized handling of HTTP requests fixed a situation where requests to Exchange Online with Basic authentication would get interrupted if the system waited too long for a reply.
- Added error logs and user authentication in the case of incorrect authentication of users with the same BPSID from different OUs.
- When viewing archived instances, the display of the creation/modification time for such instances has been improved.

6.12. Designer Desk

 Optimized processes for loading and saving Form Designer in WEBCON BPS Designer Desk.



Fixed an issue in WEBCON BPS Designer Desk appearing when attempting
to generate documentation in .pdf format in a language other than Polish,
English, and German. After upgrade, documentation of users working with
the tool in other language versions will be generated in English.

6.13. API

- Fixed an error that resulted in different values for Floating-point number and Date and time form fields depending on the selected language culture. For example, 12,34 in pl-PL culture was written as 12,34, while in en-US it was 1234,00.
 - To eliminate this problem, the SDK gained methods allowing to set field values according to the language culture specification (CultureInfo parameter).
- The size of SDK configuration windows will correctly scale to DPI for high DPI the window was too small.
- Fixed an error that occurred when creating attachments with categories not available in the data source defined in attachment categories. The attachment categories should be passed as a valid id or id#displayName.
- Added handling of Exchange Server type data sources to SDK (in the ConnectionHelper class) and API (beta version - in the admin/connections endpoint group).
- The error code caused by missing licenses has been changed to 402
 Payment Required (from 403 Forbidden and 500 Internal Server Error).
- Fixed an issue in the REST API methods:
 /api/data/v4.0/db/{dbid}/elements/{id}/admin/tasks/assignment and
 /api/data/v4.0/db/{dbid}/elements/{id}/tasks/assignment.
 It is currently not possible to assign a task for an application account running in user mode.
- Disabled the e-mail field for the API application of the application context type. Improved validation of the e-mail address entered.