WEBCON BPS Updates for WEBCON BPS version 2017.1

Version history

2017.1.2.83	2
2017.1.1.127	14
2017.1.1.112	15
2017.1.1.86	16
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2017.1.1.54 (Launch)	18

2017.1.2.83

1. Information

 Changes in this version will break compatibility of the Export-Import mechanism. Exported process packages created in versions 2017.1.1.x 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. New features

2.1. E-mail form field

The system now includes a new type of form field which can be used to validate and store an e-mail address. The configuration of this from field is used to define the default recipient, CC recipient, BCC recipient, subject, and contents of a message. Clicking the form field on the form will open the default e-mail client and generate a message based on the configuration.

The e-mail form field is also available as a column on the item list.

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2.2. Upgrades for WEBCON BPS Outlook Add-In

2.2.1. Search by instance ID or number.

It is now possible to quickly search the inbox for e-mails associated with a given workflow instance. This option is available from the context menu after rightclicking on an instance number in the BPS Outlook Add-In.

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		Gross amount 1200,00 (total)		Contractor address Babinskiego 69	

2.2.2. Edit attachments directly in BPS Outlook Add-In.

It is now possible to open and edit files that have been added as attachments to a workflow instance using WEBCON BPS Outlook Add-In. This is done by double-clicking a file in the "Attachments" tab. You can also edit and download the file from the context menu.

Note: in order to edit files directly from WEBCON BPS Outlook Add-In, it is necessary to activate "Edit using SharePoint list" on the form (Designer Studio -> Workflow -> Standard/Mobile form -> click on the "Attachments" panel to view options -> mark "Edit using SharePoint list").





2.2.3. Workflow instance can be associated with a planned meeting.

Meetings planned with MS Outlook can be associated with a specified workflow instance. Connecting a workflow instance with an event in the calendar requires the instance ID to be entered into the meeting subject (right click on the instance number -> insert ID into subject). Opening the meeting from the calendar will also cause WEBCON BPS Outlook Add-In to open the associated instance.

2.2.4. Automatically go to started workflow instance

When starting a workflow instance by dragging a file or an e-mail onto the start tile in WEBCON BPS Outlook, a workflow instance will be started according to the configuration of the tile. The new workflow instance will automatically be opened in the browser.

2.2.5. Handling multiple business entities

Added business entity configuration when defining a workflow-start shortcut tile.

2.2.6. Adding attachment descriptions

Descriptions can now be added to files attached to a workflow instance. The description may be defined when the attachment is added (dragging a file onto the attachment tab in an open workflow instance) or by selecting "Edit name and description" from the context menu of an attachment.

2.2.7. Display attachment category

The category to which an attachment belongs can be seen in the attachment tab of the open workflow instance.

2.3. Navigate to workflow instance via choice field

For "Autocomplete" and "SharePoint picker" choice fields, and for "Autocomplete" and "Choice field (picker)" item list columns, it is possible to display a link that will redirect the user to the selected workflow instance. This option is available when the data source of the choice field is a "BPS internal view" type source (therefore the linked object is another workflow instance created in WEBCON BPS).

The link is available for both editable and read-only form fields (i.e. it is a button next to the choice field).

The link is also available if the form field is configured as a column on the SWE Web Part.

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Applied by		
Applied by	Tom Green	
Details		
Applied on Category	2017-09-11 Go to workflow instance	
Related request	BPM/2016/12(10006	



2.4. Navigate to workflow instance via Data table and Data row

Form fields "Data table" and "Data row" now have the option to display a link that will redirect the user to a workflow instance. This option is available if the data source is a "BPS internal view" type source. When marking the "Hyperlink to instance" option, the corresponding column will display links that can be used to view the associated workflow instance.

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ZHF/000021/2017	2 000,00	Requisition registration	9/11/2017	Tom Green
ZAP/000019/2017	2 000,00	Supervisor approval	6/2/2017	Tom Green
ZAP/000018/20	3 500,00	Supervisor approval	6/8/2017	Tom Green
ZAP/000017/2017	1 230,00	Supervisor approval	5/19/2017	Tom Green
1 2				[1/2] Next



2.5. Rules

2.5.1. USER IS ONE OF function

The business rule editor now includes the USER IS ONE OF function, which is used for checking if the given user is a member of the selected group.

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2.5.2. Business rules parameters

It is now possible to use parameters defined for business rules within functions that obtain data from data sources (DATA SOURCE VALUE) as well as SQL and ORACLE databases (SQL COMMAND).

This feature makes it possible to parameterize SQL queries and data source filters.

2.5.3. COLLECTION function

Business rules and Form rules may now use the COLLECTION function to create a list of values.



2.5.4. Functions that modify the appearance of controls

The Form rules editor has been expanded to include a set of functions that can be used to modify the font family, font size, font color, background color, and field label on the form. These functions work identically on both the standard and mobile form.



2.5.5. System fields in Form rules

The Form rules editor can now use variables that reference system fields (i.e. system constants).

2.6. Search-box for functions and operations

A search-box has been added to help find operations and functions in the Business rule and Form rule editors.



2.7. BPS internal view

2.7.1. Formatting data according to form field configuration

Implemented data type recognition in BPS internal view columns. Therefore, values of "Floating-point number" and "Date and time" form fields that are used as data source columns will be formatted appropriately in accordance with their form field setting.

2.7.2. Ability to view form field value ID

For picker fields and system fields (Process, Workflow, Step, Form type, Form subtype, Business entity) it is now possible to load the ID of the field value.

2.8. Business rules in Word file generation

It is now possible to use Business rules when creating Word document templates with WEBCON BPS Word Add-In. The rules are taken into account when generating a Word document with the "Generate a Word file" action.

2.9. Generate process documentation

2.9.1. Rule visualization

The automatically generated process documentation will now include a visual representation of Business rules and Form rules.

2.9.2. German template

Introduced the German-language template that can be used for the automatically generated documentation.

2.10. AD user list synchronization

2.10.1. Synchronizing an individual user

It is now possible to synchronize a single Active Directory user. This can be used to quickly refresh the data of an individual user on demand, or to instantly load the data of user that has been created recently, without needing to wait for the next full synchronization scheduled in the system.

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2.10.2. Synchronization efficiency optimization

Introduced several performance-oriented improvements to the process of synchronizing the BPS user list with the Active Directory.

2.11. Currency exchange rate import from EBC

It is now possible to load the exchange rates of currencies based on the European Central Bank (https://www.ecb.europa.eu).

2.12. WEBCON BPS Designer Studio in German

A third language option for Designer Studio is now available in the appearance tab – the entirety of WEBCON BPS Designer Studio can now be viewed in German.





3. Changes to existing features

3.1. Business rules and Connections in action configuration

3.1.1. Changes to advanced configuration windows of certain actions

Business rules and Connections have been added to the configuration windows of the following actions:

- Change field value,
- Change field value (SQL),
- Validate form,
- Change item list values

As a result, the user interface and the method of configuring action parameters has undergone several changes. When updating the system to version 2017.1.2, parameters that are based on SQL queries will be automatically transformed into Business rules that use the SQL COMMAND function.

3.1.2. Change field value (SQL) action renamed

Change field value (SQL) action has been renamed to Change multiple field's values. The way the action operates remains unchanged.

3.2. Removed the ability to update instances via MS Word

The WEBCON BPS Word Add-In can no longer update data in the template based on the current values found on the form.

The feature for updating and generating Word files via the "Generate a Word file" action remains unchanged.

3.3. RUN SQL and RUN SDK functions renamed

In the Business rule editor, the RUN SQL and RUN SDK functions have been renamed to SQL COMMAND and SDK EXECUTION respectively.

These functions have been placed in the "Integration" node along with the DATASOURCE VALUE function.

- [General] Improved the handling of system accounts on the BPS users list.
- [General] Improved transaction processing for BPS internal view data sources.
- [General] Improved the visibility of e-mail messages that have been added as attachments to the attachment panel.
- [General] Improved the layout of configuration windows for 125 DPI resolution.
- [General] Improved the visibility of grouping form fields in the SQL editor window.
- **[Processes]** Fixed how the "Superior" variable works, if the user (in the context of which the variable is used) doesn't have a superior.
- [Processes] Improved the synchronization of the COS_JobTitle column in the organization structure cache.
- [Form fields] Improved currency amount formatting in Choice field search windows.
- [Form fields] "Person or group" choice fields have been tweaked to handle groups that contain inactive users.
- **[Form fields]** When using Internet Explorer, long strings of text in "Multiple lines of text" columns on Item lists should now be formatted correctly.
- **[Actions]** The "Generate a Word file" action should now work correctly with Russian browser settings.
- **[Actions]** The "Choose path (list)" action should now work correctly when set to trigger "On browser opening".
- [Actions] Several improvements were made to actions that trigger "On timeout" at set intervals.
- **[Actions]** Fixed an issue with refreshing values after using the "Change field value" action on a field that has an active filter.
- **[Rules]** The Form rule function CheckIfAttExists() should now work correctly in JavaScript mode.
- **[OCR]** Improved OCR text layer filtering when using predefined masks.
- **[Web Part]** Optimized performance on SWE Web Parts that use calculated columns to filter data.

2017.1.1.127

1. New features

• [Form fields] A new variable was added for "Single line of text" and "Multiple lines of text" form fields. This variable allows encoded text (which supports special characters) to be used in the configuration of REST action.

2. Information

 [Processes] Changes introduced in this version will break the compatibility of the Export-Import mechanism. Exported process packages created in versions 2017.1.1.112 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.

- [General] Improved the handling of system accounts on the BPS users list.
- [General] Improved transaction processing for BPS internal view data sources.
- [General] Improved the visibility of e-mail messages that have been added as attachments to the attachment panel.

2017.1.1.112

1. New features

• [Plugins] In the Outlook Add-In, the configuration of "Start a workflow instance" tiles can now also include the relevant Business entity.

2. Changes to existing features

- [General] Change the behavior of the system if it encounters two users with identical UPN identifiers when synchronizing WEBCON BPS with the AD. The synchronization of such users will be skipped, and a warning will now be posted in the synchronization log informing of this. The rest of the synchronization should proceed normally.
- [Actions] Multiple "Teach OCR AI" actions can now be triggered from a single transition path.

- [General] Improved cache refreshing after saving changes in Designer Studio.
- [General] Fixed an issue with the BPS User List synchronization. Using uppercase letters when entering a UPN should no longer cause users to be doubled.
- [Form fields] Improved data source filters used in "Choice fields".
- [Actions] Fixed the 'send a test e-mail' feature in the "Send a custom e-mail" action.

2017.1.1.86

- [General] Lengthened the timeout for awaiting a response from the Active Directory (when loading an organization structure in the BPS users list synchronization configuration).
- [OCR] Improved the handling of special characters found in documents processed by the "OCR AI Recognition" action.
- [Actions] Improved handling and updating of variables used in the "Invoke REST Web service" action.

2017.1.1.77

- [General] Fixed an issue with the 'Return' button in a workflow instance's history.
- [General] Fixed an issue that would cause the wrong 'current step' to be displayed on the status panel if form validation failed.
- [Processes] Fixed an issue with the Export-Import mechanism that would sometimes cause an exception when importing associated processes.
- [Form fields] Fixed an issue with postback generation for 'Floating-point number' form fields.
- [Form fields] Fixed an issue with the 'Add' button not displaying properly on Item lists with a large number of columns.
- [Action] Improved handling of variables in the 'Invoke REST Web service' action.
- [Action] Improved handling of variables in the 'Invoke SOAP Web service' action.
- [Web Part] Fixed an issue with how labels are displayed on SWC Web Parts.
- [Web Part] Improved filter caching on SWE Web Parts. When returning to a filtered SWE report, it should display the previously filtered results.
- [Web Part] Fixed page and filter caching on SWE Web Parts.
- [Mobile] Improved connection handling for PUSH notifications.
- [Mobile] Improved queue handling of outgoing PUSH notifications.
- [Mobile] Links in SQL Row form fields should now open properly.
- [Add-In] Fixed an error in the WORD Add-In that would occur is a 'person or group' global form field was used.

2017.1.1.54 (Launch)

2. Information

2. The way in which WEBCON BPS Web Part configuration is saved has been drastically overhauled. The configuration of these Web Parts is now saved directly in the WEBCON BPS database. Due to this change, when updating from versions older than 2017.1.x, Web Part configuration settings will be migrated. In order for the migration to be successful, all SharePoint sites that contain WEBCON BPS Web Parts cannot be checked-out or in edit mode.

In order to avoid an incomplete migration, the installer now includes an additional step which will verify all prerequisites necessary for a successful migration. The installer will create a list of all SharePoint sites that are checked-out, and offers the option to automatically discard changes and check-in all sites.

- 3. Changes in this version will break compatibility of the Export-Import mechanism. Exported process packages created in versions 2016.1.3.x 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.
- 4. WEBCON BPS installations that make use of the **FineReader 11** component will need to upgrade it to version **11.1.19.48**. The previous version of this component was 11.1.10.100.

Before starting the update, please read through the FineReader 11 component installation guide, available here: <u>http://howto.webcon.com/ocr-ai-installation/</u>. The installation process requires a product activation key and access to the product's license.

In order to update FineReader 11:

- a. Deactivate FineReader 11 product license
- b. Uninstall the previous version of FineReader 11, remove the following registries from the system: HKEY_LOCAL_MACHINE\Software\ABBYY\SDK\11 HKEY_CURRENT_USER\Software\ABBYY\SDK\11
- c. Launch WEBCON BPS 2017 installer and follow the steps described here: <u>http://howto.webcon.com/ocr-ai-installation/</u>
- d. Activate FineReader 11 product license

5. The WEBCON BPS 2017 system features an updated OCR AI engine. Because of this, all OCR AI projects that use WebCon.OcrAI.Projects.CommonInvoice.dll version 5.x.x.x must be manually updated to use the newest DLL file.

How to find projects that use an outdated DLL file:

- a) Launch WEBCON BPS Designer Studio on the relevant environment.
- b) In the "System settings" panel, expand the "OCR AI Projects" node.
- c) For every element under the "OCR AI Projects" node, locate and verify the values in the "DLL file name" and "DLL file version" fields.
- d) If the file name is "WebCon.OcrAI.Projects.CommonInvoice.dll" and the file version is 5.x.x.x (where x can be any number), then an update to the project file is necessary.

How to update an OCR AI project file:

- a) In the "OCR AI Projects" node, select a project that requires an update.
- b) From the toolbar, select "Update" and then locate the relevant ZIP file containing the newest version of the project. Files with the newest project versions are provided with every release of the WEBCON BPS system, they can be found under WebconWorkFlow\OcrAl\Projects of the published version.
 - The file "PL_CommonInvoice 6.x.x.x.zip" contains current files for the common invoice project.
 - The file "PL_CommonInvoiceWithoutTaxID 6.x.x.x.zip" contains current files for the common invoice project, excluding vendor Tax ID recognition.
 - The file "PL_TaxID 6.x.x.x.zip" contains current files for the vendor Tax ID recognition project.
- c) Confirm the selection of update file.
- d) In the "Choose project elements" window, mark the "DLL file" option, the "General network" option should be left un-marked.
- e) Confirm the configuration by clicking OK.
- f) If an incorrect update file was selected, that is incompatible with the selected project, the following warning should appear: "OCR AI project could not be updated, because the selected project contains different field definitions". The update process will not be completed.
- g) Once the project is updated correctly, the value of the "DLL file version" field should be changed to 6.x.x.x
- h) The update will not modify the definitions of custom fields previously created in the project. Dedicated networks will also be unchanged.

The above information is relevant to systems using OCR AI projects that are based on universal network projects.



3. New features

3.1. Form rules

WEBCON BPS 2017 implements the ability to define Form rules using the visual rule editor. Form rules are designed to control and dictate the behavior of the form that end-users view in their browsers.

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ELSE SHOW	<pre>> [10000]] THEN [Category]] @ [Description]] ①</pre>	Image: style="text-align: center;">Image: style="text-align: center;"/>Image: style="text-align: center;"/>		 xe JX Constraints Search in tree Name ③ Form fields ③ Global constants Process constants	
٢	11		>		
E Show E⊕	Create rule			🖌 OK 🔀 Car	icel

The old method of defining form behavior via JavaScript is still available, it can be accessed by switching the editor to "JavaScript mode".

Form rules may be used interchangeably with JavaScript mode. The JavaScript mode has been retained in order to guarantee compatibility with previous versions of WEBCON BPS.

Migrating from previous versions (8.x, 2016.x) will not transform existing JavaScript into Form rules.

3.2. Business rules

3.2.1. New operators

Additional operators have been made available in the Business rules editor.



EMPTY – Represents an empty form field. Can be used to make comparisons with other form fields of any type (text, number, choice field) to determine whether a value has been entered.

NOW – Returns the current date and time. Can be used in operations which need to take the passage of time into account.

TODAY – Returns the current date. Can be used in operations that require a date but not necessarily a time.

3.2.2. Loading values from data sources

Additional functions for loading values from external data sources have been added to the Business rules editor.

DATA SOURCE VALUE – Loads a value from the specified database via filters that narrow the scope of returned data. The configuration of this function allows to define a data source column from which a value will be loaded. If the defined filter would load multiple rows of data, the function will return the value from the first row of data.

RUN SQL – Executes SQL queries and loads a value from SQL, Oracle, and BPS data sources. The configuration of this function allows to define a SQL query, setting a connection, and specifying a column from which a value will be loaded. If the defined query would load multiple rows of data, the function will return the value from the first row of data.

RUN SDK - Activates a Business Rule SDK.

3.2.3. Load user list

The **GET USERS** function has been added to the Business rules editor, used for defining a list of users.

3.3. Connectivity and data sources

3.3.1. Connecting to data sources

WEBCON BPS 2017 introduces the ability to independently define connections to data sources of the following types:



- MSSQL database
- Oracle database
- SOAP Web service
- REST Web service

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Processes		Common DEV	TEST PROD
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		Database:	

This feature is used for configuring connections to appropriate servers in DEV/TEST/PROD environments. Correctly configuring the connection is necessary before configuring MSSQL, Oracle, SOAP, and REST data sources.



Additionally, the defined connection may be used as a universal data source for form fields powered by SQL sources (e.g.: Choice field, Chart, Data table).

In such a case, after selecting a MSSQL or Oracle database connection, it is possible to define a query that returns data which will be used to initialize a form field, directly in its configuration.



Migrating from earlier versions

When upgrading the system to WEBCON BPS 2017, connections will be created for all existing configurations of MSSQL database, Oracle database, SOAP Web service, and REST Web service data sources. These connections will be created automatically. Parameters for each connection will be copied from the corresponding data source configuration.



3.3.2. New data source - BPS internal view

WEBCON BPS 2017 introduces a new type of data source used for loading data created directly in the WEBCON BPS system. The type and scope of data returned by the BPS internal view is configured by using a visual editor. It is possible to define the process, workflow, various filters, and columns available from the data source.

Tasks Appearance	WEBCON Business Process Suite - Designer Studio	×
Data sources € ③ Gonnections € ③ Ent sources ● ③ Image: BPS Internal view ●	Data sources (BPS internal view - All processes *)	PRODUCTION C-
Image: Second secon	ID: -290 Name: All processes Superior surgering All processes Business e % BPS Internal View data source configuration	Column name ID Instance number _
③ ④ Solarevnice ③ ④ Solarevnice ④ REST Web Service ④ ■ System ④ ■ Custom	Description Process selection Predefined filters Standard filters SOL filters	
Processes	Data selection Sorting	
System settings		
Plugins		Save Cancel
Reports	Data source type: Public data source Access to data in the context of the system account	E Test
Finished Version: Enterprise SharePoint	Web: http://dev36/BPS_Main DataBase: Server=sql02 Database=JJ_BPS_Conter	nt_Main DBVersion=Main

3.3.3. New data source – Fixed values list

WEBCON BPS 2017 introduces a new data source which is used for defining a fixed list of elements. This feature is analogous to the fixed values list configuration option available to **Choice field** and **Choice tree** form fields in previous versions of WEBCON BPS.

WE	BCON Business	Process Suite - Designer Studio				- = ×
Data sources	Data sour	Ces (Fixed values list - Category)		PRO	DUCTION	CÐ
Data sources BPS internal view BPS internal view D E sived values list	🗟 New 🛛 📇 Sav	re 🏢 Delete 📋 Clone 🧟 Data source	e usage			
\$≡ Category	ID:	78	Fixed values li	st:		
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Tinished Version: Enterprise SharePoint	Neb: http://dev36/Bl	Public data source PS_Main DataBase: Server=sql02 Datab	ase=JJ_BPS_Con	tent_Main DBVersio	Version: 2017	.1 .::



3.3.4. Data source filters

WEBCON BPS 2017 introduces a visual designer for creating data source filters used in form field configuration. The filter can be used to narrow down the scope of data returned by the data source. The filter can reference form field values and constants. Standard logic operators and comparisons can be used to build expressions and conditions which operate on data from the source.

🛗 General	2 Visibility 2 Editability and requiredness	🛃 Style and beh	avior 🖙 Form types 🖉 Usages
- General			Data source
ID:	234 Column: WFD_AttChoose5		Data source: Contractor 🔹
Field name:	Contractor	文 5 A	SQL filter:
Field type:	Choice field	•	Data source columns Active = 1
	Break global configuration inheritance		
Description:		▼ 文A	
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Group:	<none></none>	*	
– Default value	e		
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			Change of value causes postback
			Behavior: Tropdown Tite International Inte
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Set on post	back		Advanced configuration

An advanced edit mode is also available when defining the filter. This mode is used to define filters in accordance with syntax used in the WHERE SQL clause. The expression defined within the filter will narrow the data from the source to meet the defined condition.



3.4. Export-Import of Web Part configuration

The Export-Import mechanism was expanded to also include the configuration of Web Parts related to the process.

We	bParts selection				
	Information Environment analysis	Selection WebParts to export			
	Proces related elements WebParts selection Export Finish	 /BPS_Main My tasks Search Box All elements All elements Search Statistic All active elements 	Export	2 2 3 2 3 3 3 3 3 3 3 3	
-	PREV			NEXT	

The process export wizard can now be used to select which Web Parts will be placed in the export package file. It is possible to export the complete process configuration (i.e. the process itself and all related Web Parts), but it is also possible to export the process and Web Parts (or even a single Web Part) separately.

The list of Web Parts which are shown as available for export will depend on which sites are associated with the process. It is possible for a process to be associated with multiple sites. The list of sites associated with a given process can be configured in the **Process sites** tab.

V Zaks Appearance	VEB	CON Business Process Suite - D	Desig	gner Studio	_ = ×
Processes C ① Getting started ② ③ ■ Aktyone ③ ④ ● Purchase Request * ● ● ● ● Workflows ● ● ● Configuration		Processes (Purchase Request	:*)	Ione C Refresh Web Part list gs Moble view Process sites Name StePages/default.aspx My tasks Search Box Al active elements Ø WebConWebParts/AlAtoveElements.aspx Al active elements Ø WebConWebParts/AlElements.aspx Al elemets Ø WebConWebParts/AlElements.aspx	PRODUCTION CO Sta Page Task Counter Simple search Show Workflow Elements Page Show Workflow Elements Page Show Workflow Elements Page Show Workflow Elements Page
Processes Processes Data sources System settings Plugins Reports				Search Search WebConWebParts/PPI.aspx Statistic	Show Workflow Elements Page KPI



Apart from Web Parts found on process sites, the export wizard will also suggest a list of additional configuration elements associated with the process. These additional elements are optional, and may be excluded from the export package (they are marked for export by default, unmark the checkbox to exclude them).

The export wizard will list the following configuration elements:

- The process, along with any associated processes
- Web Parts found on sites associated with the above processes
- Web Parts found on sites that are not associated with any process (these can found in the "Not associated with any process" view in the "Process sites" tab)
- Recursive, further processes or Web Parts which are referenced in the configuration of any of the processes and Web Parts currently being exported.

We	bParts selection			
0	Information Validation	Selection WebParts to import		ĺ
	Configuration WebParts selection Start import Import Report	 /BPS_Main My tasks Search Box All elemets Search Statistic All active elements 	Import V V V V V V V	
	PREV		NEXT	r 📫

Attention!

For this feature to fully work, the testing environment will need to be recreated according to the procedures of creating DEV/TEST/PROD environments in WEBCON BPS 2017.

3.5. BPS users list

The BPS users list is a complete list of all users defined in the WEBCON BPS system. Due the possibility of synchronizing with the Active Directory (AD), the list of BPS users can be periodically updated with new entries to the AD. The full list of configuration parameters for synchronizing with the Active Directory is accessed by clicking the **Synchronization configuration** button.

J) = =		WEBCON Busin	ess Process Suite -	Designer Studio			
Tasks Appearance							
System settings	Ð	System settin	ds (BPS users list)			PRODUCTION	<u>C</u> é
7 Global constants	LÊ.		J (
Business rules		Refresh 🕱 Synchroni	ize now 🗔 Synchronizat	on configuration			
C Clobal foldo		, G,					
Clobal narameters		Last synchronization date:	6/2/2017 7:39:09	AM Status:		E	
Appearance		Next synchronization date	6/2/2017 8:00:00	PM			
S Global privileges							
Attachments		신용 Active Directory users	Letternal provider use	s Synchronization his	tory		
Archive		Search:					
Active Directory Actions Configuration							0
R BPS users list			1	1	1		\sim
		BPS ID	Name 🔺	Email	Source	Last synchronization date	
🔂 Cache		user.1b@webcon.pl	User. 1b	User.1b@webcon.com	AD	6/2/2017	*
E-mail notifications		user.2a@webcon.pl	User.2a	User.2a@webcon.com	AD	6/2/2017	
④ 1 MS Exchange		user.2b@webcon.pl	User.2b	User.2b@webcon.com	AD	6/2/2017	
Proxy		user.3b@webcon.pl	User.3b	user.3b@webcon.com	AD	6/2/2017	
觉 Working days calendar		user.4a@webcon.pl	User.4a	User.4a@webcon.com	AD	6/2/2017	
J HotFolders		user.4b@webcon.pl	User.4b	User.4b@webcon.com	AD	6/2/2017	
MotMailBoxes		user.5a@webcon.pl	User.5a		AD	6/2/2017	
OCR AI Projects	*	user.5b@webcon.pl	User.5b		AD	6/2/2017	
_	_	webcon\user.6a	User.6A		AD	6/2/2017	
Processes		webcon\user.6b	User.6b		AD	6/2/2017	
		webcon\user.7a	User.7A		AD	6/2/2017	
-	_	webcon\user.7b	User.7B		AD	6/2/2017	
Data sources		user.8a@webcon.pl	User.8A		AD	6/2/2017	
₽		user.8b@webcon.com	User.8B		AD	6/2/2017	
	_	webcon\user.9a	User.9A		AD	6/2/2017	
System settings		webcon\user.9b	User.9B		AD	6/2/2017	
1/		user.BEZ@webcon.pl	user.BEZ		AD	6/2/2017	
	-	ut01.hotmailbox1@webc	UT01 HotMailBox1	ut01.hotmailbox1@webc	AD	6/2/2017	
Plugins		ut01.mailapprove@webc	UT01 MailApprove	ut01.mailapprove@webc	AD	6/2/2017	
		ut02.hotmailbox1@webc	UT02 HotMailBox1	UT02.HotMailBox1@web	AD	6/2/2017	
_	_	ut02.mailapprove@webc	UT02 MailApprove	UT02.MailApprove@web	AD	6/2/2017	-
[ad]	-	ut00Mailapprovo@wohc	LITTOD WERCON Worldaw	LITTOD MailApprove @web	AD	£/0/0017	

It is also possible to add users from outside of the synchronized AD domain – i.e. **External provider users**. These users are identified within the system by their e-mail address, which is provided when such a user is added to the BPS users list.

WEBCON Business Process Suite - Designe	r Studio – 🗆 ×
System settings (BPS users list)	
Image: Second State Sta	uration Status: Error ynchronization history
Image: Cock at Process Processes Image: Data sources Image: System settings Image: Plugins	

Assigning process privileges to a user is possible only after the user in question can be found on the BPS users list (either via AD synchronization or by being added as an external user).

3.6. External user authentication

The system can support external authentication providers in order to authenticate users working in WEBCON BPS.

In order to use this feature, it is necessary to install and configure the **WEBCON BPS External User Module**. The following methods of authentication are available:

- Google
- LinkedIn
- Live ID
- ADFS
- ACS



3.7. Form template – unrestricted customization of groups and tabs

It is now possible to modify the contents of form field groups and tabs directly from the **Form template** editor. The form fields belonging to tabs and groups can be freely rearranged and included/excluded by dragging and dropping them around the editor. Additionally, this means that the contents of groups and tabs can be modified individually for each step. This feature is available on both the standard and mobile form.

🗂 Ogólne 🛛 🔚 Formularze w bieżącym	kroku 🏹 Ścieżki przejścia 🛱	Akcje 🚮 Analizy	🛞 Sterowanie obiegie	em 🛛 💭 Ustawienia podobiegów	1
– Wybór formularza zadania: –––––				*	
Formularz: Formularz domyślny		▼ G Nowy	Edytuj 🗔 Usuń		
🗂 Formularz klasyczny 🛛 🛱 Formularz	klasyczny - zachowanie 🛛 📋 Formu	ılarz mobilny 🛛 🛃 Forr	nularz mobliny - zachowa	anie	
Tryb pełnoekranowy	+Nowy 🔽 🗖 Zapisz 🔽 🗟	Usuń 🔽 🤁 Odświe	ž 🔽 🖈 Lista ścieżek	📄 🕹 Deleguj 🔽	Î
Podgląd formularza	ID elementu				
Zerwij dziedziczenie ustawień	Szczegóły zadani	ia 🖡			~
Filtruj po typie formularza:					
Właściwości formularza	🖉 Wybór spółki		⊳ (^{ab})	Additional reports	×
Tryh edycii:	▲ (^{ab}) Requisition	· ·	*	WSZYSTKIE ZAŁA	<u></u> CZNIKI
Domyślnie edycja	Name	/ /		ZAŁĄCZNIKI K	ONWERSACJE EMAIL
Podtypy formularzy:	abc Photo		×	Nazwa:	
Ukryte 🔻	abc Department	~	· · * 7	Data utworzenia:	
Elementy powiązane:	17 Applied on	~		Komentarze	
Widoczne ▼	▲ ^{ab} Details	~	× 🖓	Komentarze	•
	Category	~	✓ %		
	Subcategory		*		
	abc Title	~	✓ %		
	Description	~	✓ %		
	3.1 Value	~	*		
	▲ ^{ab} Additional opinions		*		
	Supervisor opinion		*		
	Purchases vs budget (MTD)	*		
	Purchases vs budget (YTD)		*		·
✓ Widoczne ✓ Tylko do odczytu 🔳 Ty	ylko do odczytu (możliwość zmiany pr	zez JavaScript) 🔽 Wyn	agane		



3.8. Generating a sample e-mail preview using real data

The e-mail message template editor can now generate a real preview of an email sent by the WEBCON BPS system.

After specifying a workflow instance ID, the feature will use the data found in that workflow instance to fill out the template.

In environments that are designed to support multilingualism (defined system languages exist), it will be possible to select a language based on which the preview will be generated.

	ें Preview	
	Preview languag	je: Auto 🔻
		•
You've got r	ew workflow task	
Requisition approval wo	flow awaits your decision	
	Go to element Go to site	
Details:		
Details:	ZAP/000017/2017	- 1
Details: Instance number Applicant	ZAP/000017/2017	-
Details: Instance number Applicant Applicant	ZAP/000017/2017 Jacek Język	=
Details: Instance number Applicant Applicant Application	ZAP/000017/2017 Jacek Język	=
Details: Instance number Applicant Applicant Application Date of application	ZAP/000017/2017 Jacek Język 5/19/2017	
Details: Instance number Applicant Applicant Date of application Date of application	ZAP/000017/2017 Jacek Język 5/19/2017 6/2/2017	
Details: Instance number Applicant Applicant Date of application Date of application Category	ZAP/000017/2017 Jacek Język 5/19/2017 6/2/2017	
Details: Instance number Applicant Applicant Date of application Date of application Category	ZAP/000017/2017 Jacek Język 5/19/2017 6/2/2017	

Furthermore, it is possible to send a test e-mail to any chosen address. This feature is accessed by pressing the "Send test mail" button under the preview.

3.9. Images embedded in e-mail templates

E-mail templates now support embedded image attachments in base64 format.

3.10. Verification of configuration consistency

WEBCON BPS Designer Studio now includes a mechanism which verifies whether or not you can delete a certain configured element (e.g.: constant, form field, Business rule, Form rule). If the element that you wish to delete is being used anywhere in the process configuration, the mechanism will prevent the deletion.

Process Construction Construltion Constructis Cons	WEE	CON Business Process Suite - Designer Studio	×
Reports	Processes	Processes (Form fields - Description) New form field to New tab panel Save process Determine to Clone General Save for the Save process Style and behavior General Data source Data source C Deta source C C Deta source C Deta source C C Deta source C Deta source C C Deta source C Deta source C C Deta	PRODUCTION CO
	Loll Reports	Set on postback	Advanced configuration

In order to completely delete a configured element, it is necessary to first modify the process configuration so that all references to the element in question are removed.



3.11. Outlook Add-In panel

The MS Outlook Add-In panel received changes to how it presents workflow instance data. The revamped interface has the ability to present form fields, item lists, tables, and form fields divided by groups/tabs.

It is also possible to invoke Form rules that change the layout and contents of the panel.



≥	Edit F	Profile	X
attachme	ent to this particular w	vorkflow instance.	
Always	ask		•
Do you process	want to update email ?	subject after starting a	
Starting a result in a subject.	a new process in WEB adding ID of a new in	CON BPS via email may stance into message	
Always	ask		•
▲ WEB	CON BPS Laboratory	r	
Features nature. T functiona to disable	in WEBCON BPS Labo hey allow users to try alities. Nonetheless, W e and/or modify them	oratory are experimental b out new and upcoming /EBCON reserves the right without any warning.	r y t
Edit wor	kflow instances direc	tly from Outlook Add-In	
Disable	d		• •

After enabling WEBCON BPS Laboratory

mode, it is possible to edit and save workflow instances directly from MS Outlook. Laboratory mode can be enabled in the Add-In profile configuration.



3.12. Fixed process language

It is now possible to set a unified, fixed language for each process. Workflow instances and their contents will be displayed in this language on the form, in e-mail messages, and in documents generated for the process.

Setting a **Process language** (in the **Settings** tab) will cause all components of a process to be displayed in the chosen language, overriding browser language settings, SharePoint user profile settings, and SharePoint site language settings.

If there are missing translations for the selected language, the untranslated contents will be presented in the following language instead:

- English (for standard system components, these translations are made via WEBCON BPS Translator)
- Default, i.e. in whichever language the process was configured in Designer Studio. Translatable process components (which have the button) that don't have any translations defined will simply use the text which was entered into the configuration fields.

When choosing the Use global settings option, the process language will depend on the Default user's language setting found under System settings -> Global parameters -> Languages.

3.13. Visibility and ordering of columns in Data table and Data row form fields

Additional options were added to the advanced configuration screens **Data table** and **Data row** form fields. It is now possible to select which of the data columns returned from the database will be visible on the form. Furthermore, it is possible to customize the order in which these columns are displayed.

Column	Display name	Aggregation type	Show column	
PROCESS	Process	None		1
INSTANCE NUMBER	Instance number	None		Ŵ
ID	ID	None		
STEP	Step	None		
ASSIGNED TO	Assigned to	None		
DAYS IN STEP	Days in step	None		
CREATED BY	Created by	None		
DURATION	Duration	None	\checkmark	
BUSINESS ENTITY	Business entity	None	\checkmark	
 Query data source Show form field na Show form field de Show columns nam Show summary row Load on demand Paging 	if variables return emp me scription les v	ty values		

3.14. AM/PM time format

A unified time formatting was introduced to time displayed on forms, Web Parts, and in generated documents. Depending on the browser culture in which the user is working, the time will now be formatted consistently for the entire system in both 24 and 12-hour formats.

4. Changes to existing features

4.1. JavaScript configuration changes

4.1.1. JavaScript scripts transformed into Form rules

Due to the introduction of Form rules, updating the system to WEBCON BPS 2017 will cause all JavaScript scripts to be transformed into Form rules operating in **JavaScript mode**. This change applies to the following sections of Designer Studio:

- Form (standard & mobile)
 - Behavior -> Javascript to be executed on page load
 - Behavior -> Javascript to be executed on page load and on postback
- Form fields
 - Style and behavior -> Script to be executed on value change
- Item list configuration
 - General -> Functions invoked after callback
- Item list column configuration
 - Style and behavior -> Script to be executed on value change
- Form on step
 - Forms on current step -> Standard form behavior -> Javascript to be executed on page load
 - Forms on current step -> Standard form behavior -> Javascript to be executed on page load and on postback
 - Forms on current step -> Mobile form behavior -> Javascript to be executed on page load
 - Forms on current step -> Mobile form behavior -> Javascript to be executed on page load and on postback
- Form field configuration on specific step (standard form and mobile)
 - Script to be executed on value change
- Item list column configuration on specific step (standard form and mobile)
 - Script to be executed on value change



4.1.2. Automatic JavaScript registration

WEBCON BPS 2017 introduced changes to how JavaScript is registered on the website. From now on, scripts created as Form rules are automatically registered on the website. The previous configuration that allowed to define and register JavaScript was removed. Existing scripts were moved and added to Form rules that are executed on page loading.

This change applies specifically to the following sections of WEBCON BPS Designer Studio:

- Form (standard and mobile)
 - Behavior -> JavaScript to be registered on the webpage
- Form fields
 - Style and behavior -> Script to registered on webpage

Migrating from earlier versions

When a script found in the configuration of a form field is migrated, the original script will be placed within a clause verifying the visibility of that form field, and making sure that exceptions are supported. This transformation guarantees full backwards-compatibility and correct functioning of the form after upgrading the system.

```
if (IsFormFieldVisible(FormField_Code ,FormField_ID )) {
    try {
        window.eval('function ShowHideDeadline()\
    {
        Original script
    }
};;
}
```



4.1.3. Changed JavaScript execution order

The order in which JavaScript scripts (now defined as Form rules) are executed has been changed.

The order that has been used in previous versions can be found here:

http://howto.webcon.com/javascript-execution-order-in-8-3/

Currently, the order in which Form rules in Rule and JavaScript modes are executed is as follows:

JavaScript sequence whenever the page is loaded

Execution order	Place of rule configuration	Previous configuration name (version 2016.1.3)
1	Workflow configuration ->	JavaScript to be
	Form (standard or mobile) ->	executed on page load
	Behavior ->	
	Form rule to be executed on page load	
2	Edit Workflow step ->	JavaScript to be
	Forms ->	executed on page load
	Form (standard or mobile) – behavior ->	
	Form rule executed on page load	
3	Workflow configuration ->	JavaScript to be
	Form (standard or mobile) ->	executed on page load
	Behavior ->	and on postback
	Form rule executed on page load and on postback	
4	Edit Workflow step ->	JavaScript to be
	Forms ->	executed on page load
	Form (standard or mobile) – behavior ->	and on postback
	Form rule executed on page load and on postback	



JavaScript sequence on value change

If the **Change of value causes postback** checkbox is set in the form field configuration, the order of running Form rules (whenever that form field's value is modified) is as follows:

Execution order	Place of rule configuration	Previous configuration name (version 2016.1.3)
1	Form field configuration ->	Value changing script
	Style and benavior -> Form rule to be executed on value change	
2	Workflow configuration -> Form (standard or mobile) -> Behavior -> Form rule to be executed on page load and on postback	JavaScript to be executed on page load and on postback
3	Edit Workflow step -> Forms -> Form (standard or mobile) – behavior -> Form rule to be executed on page load and on postback	JavaScript to be executed on page load and on postback

4.2. Data source configuration

4.2.1. Changes to the configuration of data sources – defining connections for MSSQL database, Oracle database, SOAP Web Service and REST Web Service

For data sources of the following types: MSSQL database, Oracle database, SOAP Web Service, and REST Web Service, will require setting up a **Connection** to the appropriate server for the given data source. The **Connection** itself is defined as a separate configuration element in the **Data sources** panel.

Migrating from earlier versions

During the update to WEBCON BPS 2017, connections will be created automatically for the 4 types of data source mentioned above. The connection parameters will be copied from the previous configurations of those data sources.

4.2.2. Changed configuration of data sources for form fields – data source filters

The method of filtering and operating on data sources in the configuration of form fields has been revamped. From now on, the data source configuration will be used only for applying a filter narrowing the scope of the returned data. Notably, the data source filter will no longer allow queries that retrieve data from tables and columns different than those defined in the data source.

The previous configuration (allowing full SQL queries) can still be accessed by selecting one of the **Connections** as the data source in the form field configuration.



Migrating from earlier versions

For **MSSQL database** and **Oracle database** type data sources, if there exists a form field that uses an SQL query to one of those databases, then during the migration to WEBCON BPS 2017 the data source choice will be switched automatically to the corresponding Connection instead. The contents of the query will remain unchanged.

For **SharePoint list** type sources, every form field that uses this source will have its own independent data source created during migration. This new data source will contain the CAML query originally found in the form field configuration.



4.2.3. The "People field data source" option has been removed from "Choice field" form fields

In the configuration options of the "Choice field" type form field, it is no longer possible to select "Use people field data source" as the data source.

From now on, the functionality of selecting a single user or a group was moved entirely to the "Person or group" form field.

In WEBCON BPS 2017, the "Person or group" form field has two operating modes: as a choice window (picker) and as an autocomplete field.

Migrating from earlier versions

Due to the changes mentioned above, after updating to WEBCON BPS 2017, all "Choice field" form fields that contain "Use people field data source" in their configuration will be transformed into "People or group" form fields with an identical configuration.

The same will apply to global "Choice field" form fields, they will be transformed into the new global "Person or group" form fields which were added for this purpose.

4.3. Web Part configuration moved to main database

Due to the Export-Import feature now also covering Web Part configuration, the method of storing the configuration of BPS Web Parts has been changed. In WEBCON BPS 2017, the configuration of Web Parts is saved and stored directly in the WEBCON BPS process database.

Due to these changes, it is important to remember that all modifications made to Web Parts will be instantly visible to all SharePoint site users as soon as the new configuration is saved. The SharePoint mechanism for checking-out and publishing is skipped entirely.

The list of below contains Web Parts that are affected by the change. The second column contains new names for BPS Web Parts which will be used from version 2017 onwards.

Previous Web Part name	WEBCON BPS 2017 name
BPS Dashboard	Admin Dashboard
BPS Element Details	Element Details
BPS Site Filter	Filter
BPS Steps KPI	KPI
BPS Office Add-Ins Installer	Office Apps Installer
BPS Show Workflow Charts	Show Workflow Charts
BPS Show Workflow Elements	Show Workflow Elements
BPS Search Box	Simple search
BPS Start Workflow	Start Workflow
BPS Substitution Management	Substitution Management
BPS My Inbox	Task Counter
BPS Vacation Chart	Vacation Chart
BPS Vacation Summary	Vacation Summary

Migrating from earlier versions

When updating the WEBCON BPS system to version 2017, the configuration settings of Web Parts will be automatically transferred to the WEBCON BPS process database. In order for the migration to be successful, all SharePoint sites that contain WEBCON BPS Web Parts cannot be checked-out or in edit mode. This requirement is checked on the "Prerequisites" step of the WEBCON BPS Installer.



4.4. Process sites

The method and the place of configuring sites associated with a process has been changed. In WEBCON BPS 2017, associated sites are defined in the new **Process sites** tab of the process configuration.

WEBCON BPS 2017 also allows users to associate multiple sites with a single process, nonetheless only one site is considered the "main site". The address of the main process site is used in e-mail messages to link to workflow instances, allowing a given instance to be opened in the browser.

Migrating from earlier versions

When updating the WEBCON BPS system to 2017 version, associated process sites will be added to the list according to the following logic:

- The site entered in the "General" tab -> "Linked site" will remain associated with the process. It will also be set as the "Main site" (distinguished by a star).
- All other sites and sub-sites will be searched for Web Parts which reference the given process. All sites where such a Web Part is found will be listed as a Process site.

4.5. Sites collection address

The site collection address configuration has been moved from:

Global parameters -> Attachments -> Site collection address

To:

Global parameters (main node) -> Environment settings -> Sites collection

The site collection address is built by combining:

"SharePoint application base URL" + "Sites collection".

4.6. Storing users in the database

WEBCON BPS 2017 introduces a new format of storing and identifying users in the database. The **User Principal Name** will now be the user's identifier, saved in the database according to the following format:

UPN#Name (e.g. TomGreen@webcon.com#Tom Green)

This change only applies to fresh installations of the system, created directly in WEBCON BPS 2017. For existing installations which will be updated to WEBCON BPS 2017, the previous format of storing users will be maintained (Down-Level Logon Name):

DOMAIN**UserName#Name** (e.g. webcon\TomGreen#Tom Green)



4.6.1. Changes to the Active Directory Server configuration

Due to the **BPS users list** feature being added, the place and method of configuring the Active Directory Server connection settings has been changed. The configuration group: **Active Directory Server** in Global parameters has been removed.

	WEBCON Business Process Suite - Designer Studio
System settings	System settings (Active Directory server)
⊞ Business rules ⊙ 🕞 Gobal fields	🐣 Save
Global parameters Appearance Solal privileges Attachments	Active Directory Server Active Directory Actions Configuration Connect using application pool user data Connect using given data
Active Directory server ▲ cargoogue ← Cache ④ ⊠ E-mail notifications	Connection Properties Domain: User: Descented Descented User: Descented
() Ellin Ms Exchange () Proxy (*) Working days calendar ↓ HotFolders ↓ HotFolders ↓ HotFolders	Use SSL connection

• The Active Directory Server connection configuration for the purpose of synchronizing AD users with BPS Users List is available under:

Global parameters -> BPS Users list -> Synchronization configuration -> Credentials

Based on the set parameters, the service synchronizing the AD contents with the BPS Users List is responsible for making the connection to the AD server.



Taks Annearance	WEBCON Business Process Suite - Designer Studio	- ¤ ×
System settings	System settings (BPS users lat)	PRODUCTION CO
A sloba privileges A sloba privileges Archive Archive Archive Archive Archive Archive Archive Constant Disconnect Disconnect Constant Disconnect Proxy Yorking days calendar Thorbiders Soft Horbiders So	BPS users list synchronization configuration	×
Processes Data sources System settings Plugins Reports		Save Save

- The Active Directory Server connection configuration for Data sources of the Domain users type was moved to the data source configuration. If Domain users data source types exist in the system, updating to WEBCON BPS 2017 will result in copying the parameters defined in Global parameters -> Active Directory -> Active Directory Server to the configuration of each of those individual data sources.
- Active Directory actions configuration group was added. It contains the connection parameters employed by actions that manage AD users and groups.

	WE	BCON Busine	×	
System settings (0	System	settings (Active Directory Actions Configuration *)	PRODUCTION CO
 (c) Global parameters (c) Appearance (c) Global privileges (c) Attachments 	l	Save	tory	ove setting and usually does not require credential
G II MS Exchange Foxy Yorking days calendar HotFolders HotBolders OtMalBoxes OCR AL Projects	•	User - doma Domain: User: Password:	in administrator	



4.6.2. Cache configuration changes

Due to the introduction of the **BPS Users List** feature, the method of synchronizing and storing organization structure data from the Active Directory in the WEBCON BPS system has been changed.

The **Organization structure cache** and its configuration were removed from the **Cache** node of the global parameters.

↓ ¹ ²	WEBCON Business Process Suite - Designer Studio									
Tasks Appearance System settings C ③ T ₀ Global constants ▲	System setting									
Image: Solution control Image: Solutio	Cache stored in database									
2 Global privileges	Name Organizational structure	Description Organizational structure stored in	Date of last upd Status of I Details	Run now	X Settings					
Languages	- Cache stored in frontends'	memory								
⊘ E-mail notifications	Name	Description		Validity time						
③ []] MS Exchange ➡] Proxy ⑦ Working days calendar ↓ HotFolders ◄ HotMalBoxes		Content of the Domain users' dat List containing configured action t List of Active Directory groups to List of business entities ID of column turn per given column	a source with the 'All users' query kind. emplates which the user belongs	3h 1h 1h	े leset cache े leset cache े leset cache े leset cache े leset cache					

• Synchronization of the **Organizational structure**, along with the structure of privileges, is carried out during the synchronization of the BPS Users List and when data is loaded from the Active Directory.

The organizational structure and its privilege settings is always loaded during BPS Users List synchronization, there is no way to deactivate this.

The configuration for narrowing the scope of synchronization, and for mapping AD properties to columns of the cache database, can be found under Global parameters -> BPS users list -> Synchronization configuration -> Settings.



T= Credentials	Schedule			
Domain/Organizational unit				1 🕀
webcon.pl				9
Database column	c	olumns mapping		
Database column COS_ExtensionAttribute01	c	olumns mapping		
Database column COS_ExtensionAttribute01 COS_ExtensionAttribute02	c	olumns mapping		
Database column COS_ExtensionAttribute01 COS_ExtensionAttribute02 COS_ExtensionAttribute03	c	olumns mapping		
Database column COS_ExtensionAttribute01 COS_ExtensionAttribute02 COS_ExtensionAttribute03 COS_ExtensionAttribute04	c	olumns mapping		
Database column COS_ExtensionAttribute01 COS_ExtensionAttribute02 COS_ExtensionAttribute03 COS_ExtensionAttribute04 COS_ExtensionAttribute05	c	olumns mapping		
Database column COS_ExtensionAttribute01 COS_ExtensionAttribute02 COS_ExtensionAttribute03 COS_ExtensionAttribute04 COS_ExtensionAttribute05 COS_ExtensionAttribute06	c	olumns mapping		
Database column COS_ExtensionAttribute01 COS_ExtensionAttribute02 COS_ExtensionAttribute03 COS_ExtensionAttribute04 COS_ExtensionAttribute05 COS_ExtensionAttribute06	C	olumns mapping		



The configuration of synchronization schedules is found under **Global** parameters -> BPS users list -> Synchronization configuration -> Settings.

G Settings ♀= Credentials 🛗 Schedule	
PS users list synchronization time	
12:00 AM	; ⊕ ⊖

Synchronization schedule configuration is also available in the service schedule.

	WEBCON Business Process Suite - Designer	r Studio	×
Tasks Appearance System settings	System settings (schedules)	PRODUCTI	
 ⑦ ∬₅ Gabel constants ⑦ ∰ Business rules ⑦ ∰ rom rules ⑧ Global fields ⑨ Global garameters ↓ HotFolders ♥ Global projects ♥ FOC RA Projects 	Save Save Solution Save Save Solution Solution Al dates should be specified in the time zone of the date BPS users list synchronization time	tabase (UTC +01:00) Substitution activation time	
Control Trajectorem Traje	12:00 AM		⊝
Data sources	KPI time refresh	Time of currency rates download	
System settings		Θ	Θ
Plugins			
Reports			
	-	Rate download starting from: 10	/12/2011 🔹 🕕



4.7. Business rules – "+" and "–" operators

WEBCON BPS 2017 changed how "+" and "-" operators work when used in operations involving dates. From now on, the number (blue) will represent how many days are to be added/subtracted from the given date (yellow).



4.8. Business rules – SQL mode changed to RUN SQL function

Due to the introduction of new functions that load values from data sources, **SQL Mode** and **SDK Rule** mode have been removed from the Business rules editor. SQL queries and SDK can still be used in Business rules via functions.

Migration from earlier versions

Rules using SQL Mode will be transformed into Business rules with an appropriately configured **RUN SQL** function.

Rules using SDK Rule mode will be transformed into Business rules with an appropriately configured **RUN SDK** function.

4.9. Action availability

The number of possible triggers that can be used to invoke certain actions was increased. Please consult the table below to learn which actions can be invoked by which triggers.

- ✓ Action available before version 2017
- ✓ Action available since version 2017

Action group	Action type	On entry	On exit	On timeout	On browser opening	Menu button	On path	Cyclical	Upon instance deleting	Upon instance saving	Attachments menu	On attachment add
	Manage groups	1	1	1	1	\checkmark \checkmark \checkmark \checkmark						
Active Directory	Add user to a group	✓	✓	√	√	✓	✓			✓		
	Manage users	✓	✓	1	1	✓	1			✓		
	Authorize user		✓				✓					
Digital signatures and	Sign an attachment with CoSign	~	~	1	~	1	1			1	1	
certificates	Sign an attachment	✓	✓	1	✓	✓	✓	$\begin{array}{c c} & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ &$				
	Verify attachment's signature		✓		✓		✓			✓		
	Read a barcode	✓	✓	✓	✓	√	✓			✓		
Barcodes	Add a barcode	✓	✓	√	√	√	✓			✓		
	Printout a barcode label	✓	✓			✓	1			✓		
	Choose path (list)				✓							
	Move workflow (SQL)	 ✓ 	✓	✓	✓	✓	✓	✓				
	Move workflow	✓								1		
	Start a subworkflow (SQL)	✓	1	✓	✓	✓	1	1	1		 ✓ ✓	
Workflow control	Start a subworkflow	✓	✓	✓	✓	✓	✓	✓	1	✓		
	Manual workflow start					✓						
	Set workflow status	✓	✓	✓	✓	✓	✓			✓		
	Update related workflow instance	✓	1	1	1	1	1	1		1		
	Change form type					✓						
	Generate a Word file	✓	1	1	1	✓	✓			✓		
	Convert Word to PDF	✓	1	1	✓	✓	✓			✓	✓	
Excei, Word &	Generate an Excel file	✓	✓	✓	✓	✓	✓			✓		
FDF	Generate a PDF file	✓	✓	1	1	1	1			1		
	Read data from an Excel file	✓	✓	✓		✓	✓			✓	・ ・ ・ ・ <	

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Substitutions	Add a substitution	✓	✓	√	√	√	✓			✓		
Substitutions	Remove a substitution	✓	✓	√	√	√	✓			✓		
	Send custom e-mail	✓	✓	✓	1	✓	✓		✓	✓		
Notifications	Send standard e-mail	✓	✓				1			✓		
	Send Lync message	✓	✓	1		1	✓					
	Exchange events	✓	✓	✓	✓	✓	✓		√	✓		
Exchange	Exchange tasks	✓	✓	✓	✓	✓	✓		√	✓		
	Out of office autoreply	✓	1	✓	✓	1	1			✓		
	Run an SQL procedure	✓	✓	✓	✓	1	1	✓	1	✓		
Integration	Run an SDK action	✓	√	1	✓	1	1	1	✓	✓		
Integration	Run a PowerShell script	✓	✓	√	√	1	✓		√	✓		
	Invoke SOAP Web service	✓	✓	✓		✓	✓			✓		
	Invoke REST Web service	✓	✓	✓		1	✓			✓		
Form	Validate form	✓	✓	✓			✓		✓	✓		
	Hyperlink	✓	✓		✓	✓	✓			✓		
Form	Change field value	✓	✓	✓	✓	✓	✓		✓	✓		
	Change field value (SQL)	1	1	✓	✓	√	1		1	✓		
	Change items list values	✓	✓	1		√	✓			✓		
Reports and	Generate an RS report	1	1	1	1	1	1	1		~		
printouts	Generate an HTML printout	✓	✓			✓	1					
	Attachment OCR	1	1	1			1					
OCR and	OCR AI recognition	✓	✓	✓	✓	✓	1			✓		
scanning	Teach OCR AI	✓	✓	1	1	✓	1			✓		
courning	Add a text layer	✓	✓	1	1	1	1			✓		~
Privileges	Remove privilege	✓	✓	1	-	√	✓			✓		
Privileges	Add privilege	✓	✓	-	-	-	1			✓		
Task	Create task	✓	✓				√			✓		
assignment	Choose an approver	✓	~	1	~	✓	~			~		
Database	Archived instances retention	✓	✓	√		 ✓ 	✓	 ✓ 				
retention	Archive workflow instances	✓	✓	✓		✓	✓	√		✓		
	BPS users list synchronization	√	√	√		√	√	✓		 ✓ 		
	Add attachment	√	√	1	-	√	√			√		
	Update attachment	√	√	1	-	•	√			•		
Attachments	Remove attachment	•	•	•	•	•	•			✓		
	Copy to the other instance										√	
	Move to the other instance		1			1	1		1		•	
SharePoint –	Create/delete a user	•	•		*	*	•		*	•		
users and	Create group	•	•		•	•	•		•	•		
privileges	Add privileges	•	•		•	•	•		•	•		
		•	•		•	•	•		•	•		
	Edit a list alement	•	•	1	•	•	•		•	•		
	Delete a list element	•	•	-	• •	• √	•		• •	• •		
SharePoint -	Delete a list	· ·	· ·	-	· ·	· ·	· ·		· ·	• •		
content	Delete a list	•	•	· ·	• •	• •	• •		• •	• •		
	the list											
	Add a new list along set	¥ ./	V	•	•	•	¥		•	•		
	Aud a new list element	v	v		¥	v	v		¥	v		



4.10. Name change to SQL Grid and SQL Row form fields

SQL Grid has been renamed to **Data table** and SQL Row became **Data row**. Their functionality remains identical.