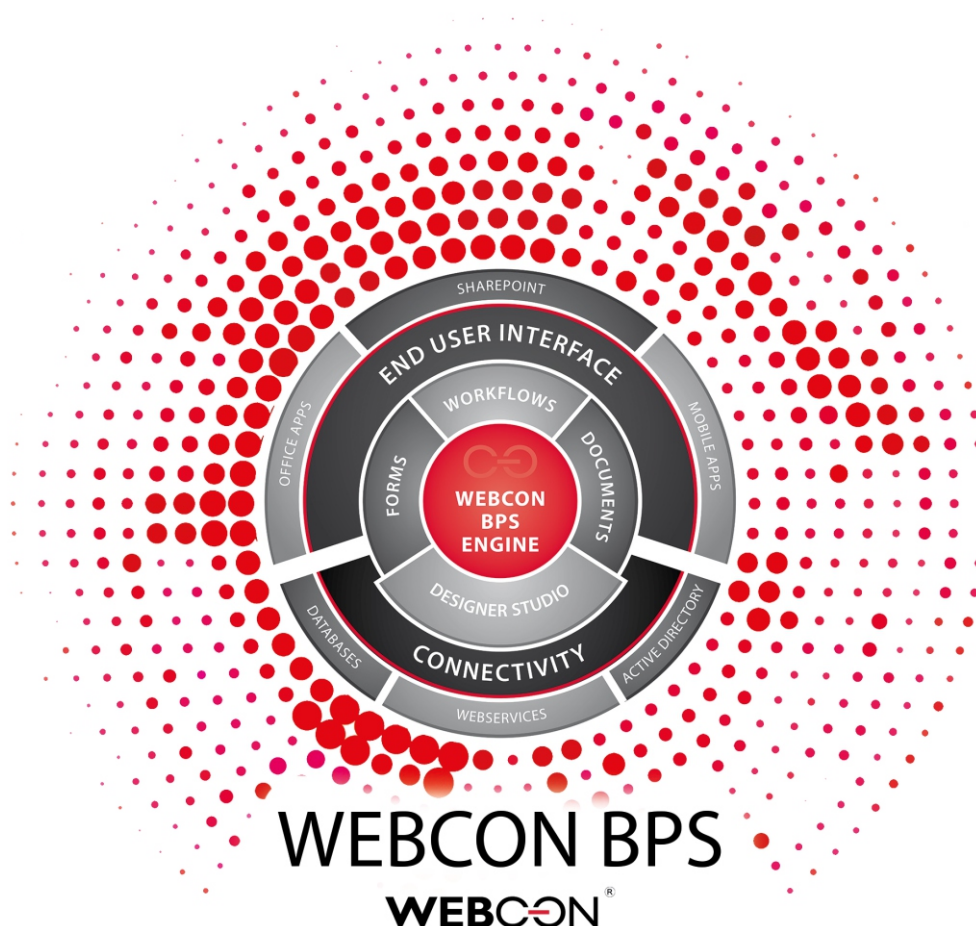


# WEBCON **BPS** 2016

New features and improvements.



WEBCON BPS 2016 is the newest version of the system, which now has numerous breakthrough features and plenty of improvements and fixes. We listen to our clients and partners and try to meet their demands by making sure that the system fulfils extensive requirements, from both the technological and business perspective. This document covers the most important changes.

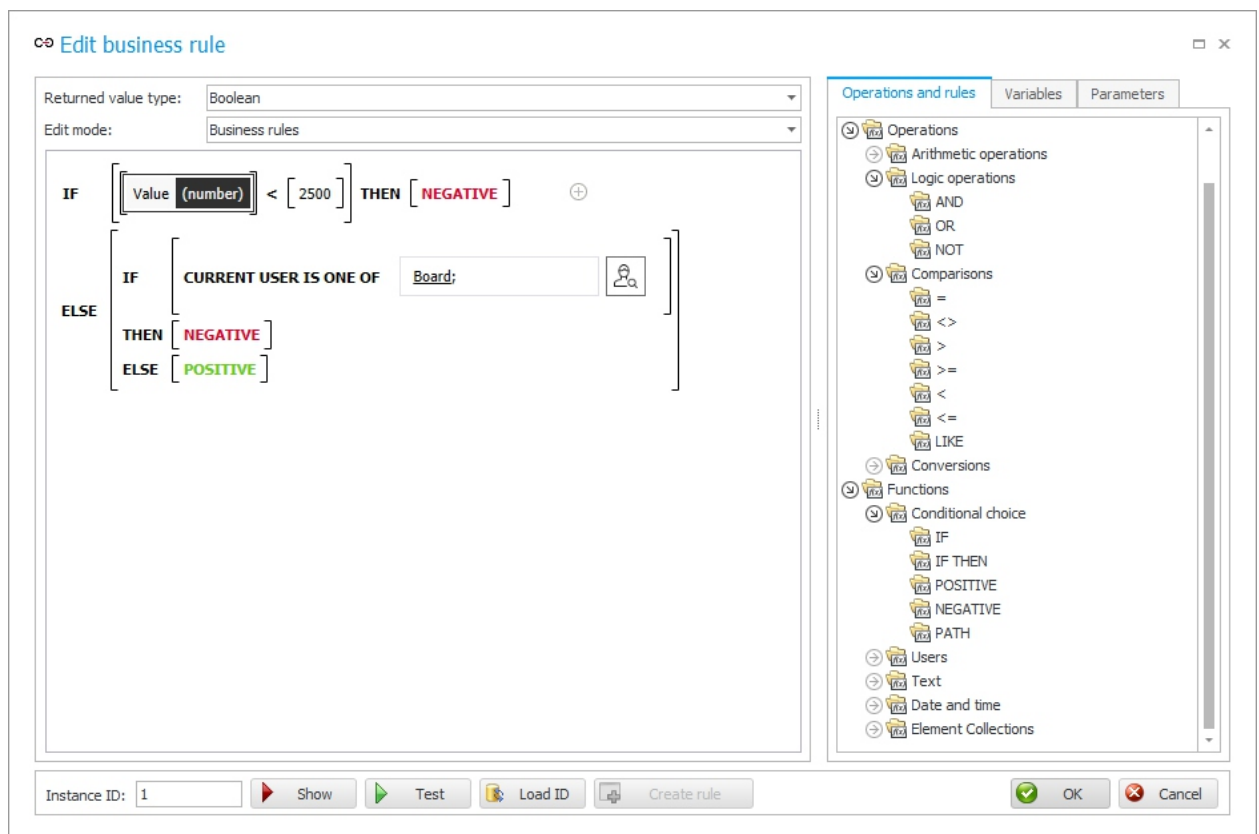
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# 01 BUSINESS RULES ENGINE

The completely new business rules engine is the most important feature introduced in WEBCON BPS 2016. It is an easy-to-use tool for business users who want to create advanced applications with WEBCON Designer Studio.

The business rules engine allows for creating numerous conditions (e.g. for executing actions, entering default values, etc.) with a graphical editor and a user-friendly drag and drop interface. Please note that experience in writing SQL queries is not required.



Once created, the business rules can be reused in many places. As a result, the provided solution is not only faster, but it is also easier to make modifications because the changes entered in the universal rule are propagated everywhere it is used. Furthermore, it is very easy to check where the given rule is used – after you choose the appropriate option in the Designer Studio, the system indicates all such locations.

However, implementation of business rules in WEBCON BPS 2016 does not mean that conditions created traditionally with SQL queries have been abandoned. To use the system the same way as before, you just have to choose the SQL mode. SQL queries created manually can also be saved as business rules and used in many places simultaneously.

## 02 WHOLE NEW LEVEL OF FORMS CREATION

The new version of WEBCON BPS provides plenty of functions and improvements in form creation, the most important ones being:

**MORE DESIGN FREEDOM, SAME DELIVERY TIME**

In response to numerous suggestions, we have introduced more options to adjust the form structure and appearance to the end client's individual requirements. Compared to the previous version, there are now four panels (top, bottom, right, left) storing form fields instead of the previous two.

SharePoint

Michał Rykiert ▾ ?

[UDOSTĘPNIJ](#)
[OBSERWUJ](#)

**Task details**

Form type:  
**Requisition form**

Workflow:  
**Approval workflow**

**Steps**

- Requisition registration
- Supervisor approval
- Approved requisitions

**Details**

Created by:  
Michał Rykiert

Created date:  
8/12/2016

Modified by:  
Michał Rykiert

Modified:  
8/17/2016

Version:  
3

Assigned to:  
→ Michał Rykiert

[History](#)

Requestion

**Requisition registration**  
Complete the requisition form. Required fields have been marked with red asterisk. Once completed, the form will be sent to your direct supervisor approval.

---

**Applied by**

Name *	Michał Rykiert
Supervisor	Lukasz Wrobel
<b>Requisition</b>	
Category *	Software
Title *	WEBCON BPS
Description *	The best BPM platform for SHAREPOINT!
Total value *	12,398.00 EUR
Applied on *	8/12/2016

**Comments**

Comment

The comment section can be here now!

**Requested items**

ID	Item	Qty	Price	Value	Actions
1	WEBCON BPS Server lice ▾	2	5 350,00 EUR	10 700,00 EUR	X X
2	Other ▾	3	566,00 EUR	1 698,00 EUR	X X
			ADD	12 398,00 EUR	

ATTACHMENTS ALL ATTACHMENTS

**PDF** Name: FV\_20130718\_09082428\_028.pdf  
Created: 8/12/2016 11:42 AM (Michał Rykiert)

**2. Zestaw sztabek HP L7 P300S kit szt. 1**

**3. Narzędzia cięciarki Tascam**

VAT Towary netto	Usługi netto	Suma netto	Suma VAT	Suma brutto
23%	133.00	100.00	233.00	53.59
22%	0.00	0.00	0.00	0.00
0%	0.00	0.00	0.00	0.00
07%	0.00	0.00	0.00	0.00
05%	0.00	0.00	0.00	0.00
03%	0.00	0.00	0.00	0.00
0%	0.00	0.00	0.00	0.00
SUM	0.00	0.00	0.00	0.00

Razem: 133.00 100.00 233.00 53.59 286.59

**Spisób zapłaty**

Ip. Termin	Forma	Komentarz
1. 26/07/2013 Przelew		

**Do zapłać**

Słownie: dwieście osiemdziesiąt sześć złotych pięćdziesiąt dziewięć groszy

Myczał dokument : Ślaskarczyk Piotr Myczal towar z magazynu aktywa, programy wspomagające

Podpis osoby upoważnionej do wystawienia Faktury Data, nazwisko i imię

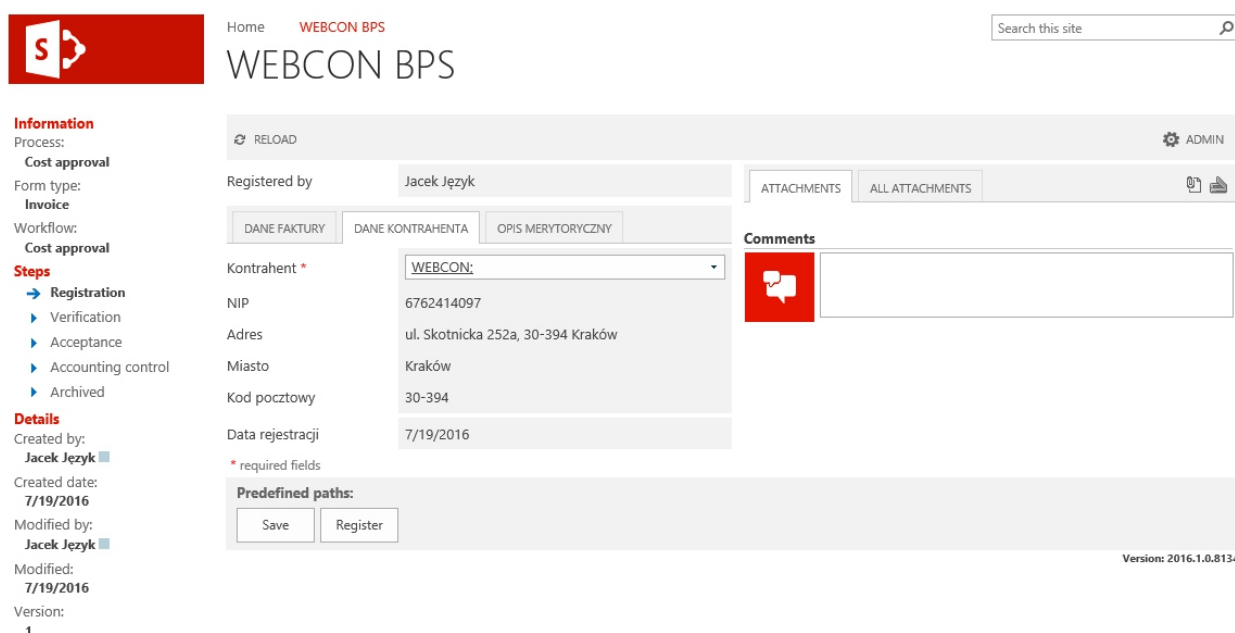
WEBCON BPS 2016 also has the option of changing the location of previously fixed elements, i.e:

- attachment area
- attachment preview
- task/step details
- comment field
- instance ID

These changes considerably increase the freedom of creating forms in the system while preserving the key feature of WEBCON BPS – the ability to provide a ready solution in a very short time, with no need to start designing from scratch.

## NEW FORM FIELD ARRANGEMENT – TAB PANEL

Complex forms with many fields, tables, and graphical reports require appropriate means allowing for friendly and ordered presentation of all required data. Besides the field groups introduced in the previous version (8.0), WEBCON BPS 2016 also introduces a tab panel.



The screenshot displays the WEBCON BPS 2016 user interface. On the left is a sidebar with navigation links under 'Information', 'Steps', and 'Details'. The main area features a 'RELOAD' button and an 'ADMIN' gear icon. Below these are tabs for 'DANE FAKTURY', 'DANE KONTRAHENTA', and 'OPIS MERYTORYCZNY'. The 'DANE KONTRAHENTA' tab is active, showing a form with fields for 'Kontrahent \*', 'NIP', 'Adres', 'Miasto', 'Kod pocztowy', and 'Data rejestracji'. A 'Comments' section with a red speech bubble icon is on the right. At the bottom, there are 'Save' and 'Register' buttons under the heading 'Predefined paths:'. The version number '2016.1.0.8134' is visible in the bottom right corner.

Like the field groups, it is available as a separate form field. The user-friendly drag & drop interface allows for entering specific fields in defined tabs and changing the order in which they are displayed.

The tabs enable users to display e.g. a series of graphical reports without them taking up too much space.

## NEW GLOBAL FORM TEMPLATE

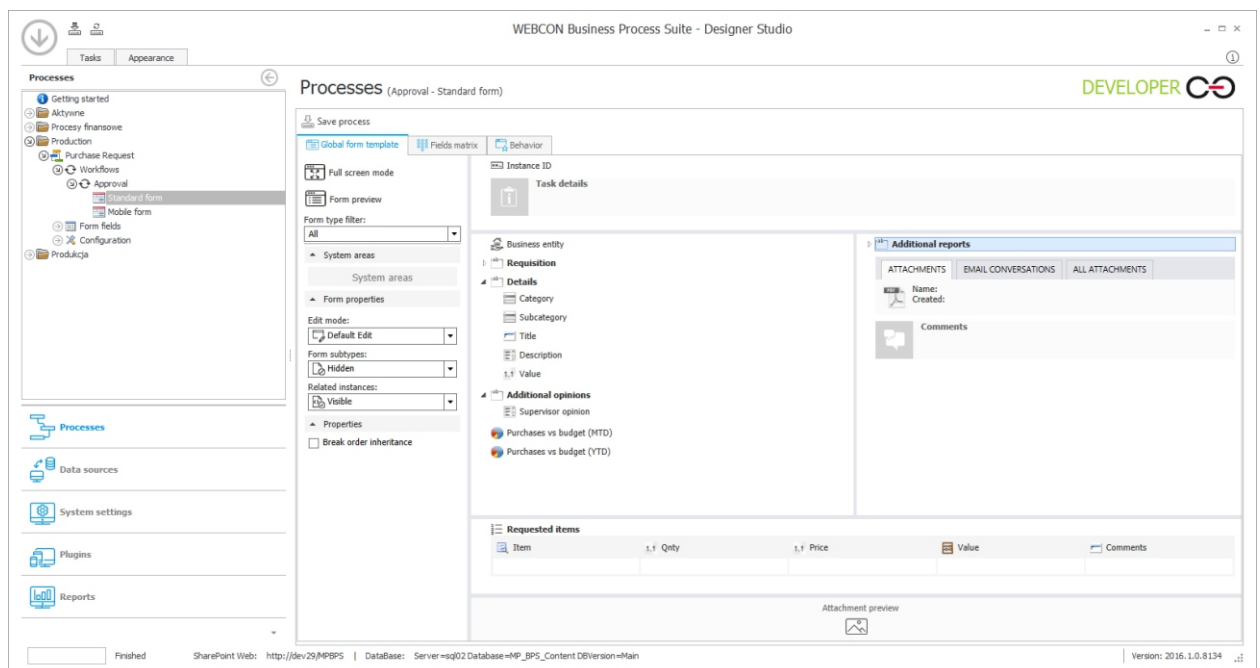
WEBCON BPS 2016 also sees the introduction of a new form editor. The biggest change from the previous version is how fields are presented. The current view reflects the arrangement displayed to end users much better. It is also possible to quickly preview a form embedded in SharePoint at every workflow step. Furthermore, the form editor can be displayed in full-screen mode for more convenience, especially on low-resolution monitors.

Thanks to these changes, the forms are much easier and more intuitive to work with.

## IMPROVED FIELD MATRIX

The field matrix has also undergone ergonomic improvements. In addition to the new appearance and colors, there is also a new context menu allowing for:

- Setting the behavior of the given field in all workflow steps simultaneously
- Setting the behavior of all fields in one step simultaneously
- Expanding all field groups and tabs with a single click





Furthermore, it is also possible to quickly preview the form at any stage from the field matrix, on mobile devices as well.

WEBCON Business Process Suite - Designer Studio

Processes (Approval - Standard form)

DEVELOPER

Save process

Global form template Fields matrix Behavior

Form type filter: All

Filter by form field name:

Top panel Left panel Right panel Bottom panel Standard areas

Fields	Purchase Request registration	Supervisor approval	Board approval	Approved	Rejected
Business entity	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Requestion	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Photo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Department	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Applied on	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Details	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Category	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Subcategory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Title	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1..1 Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Additional options	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Supervisor opinion	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Purchases vs budget (MTD)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Purchases vs budget (YTD)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Copy from step

- Set all to visible
- Set all to not visible
- Set all to read-only (text)
- Set all to read-only (text box)
- Set all to editable
- Set all to required
- Set all to not required
- Open form preview
- Open mobile form preview

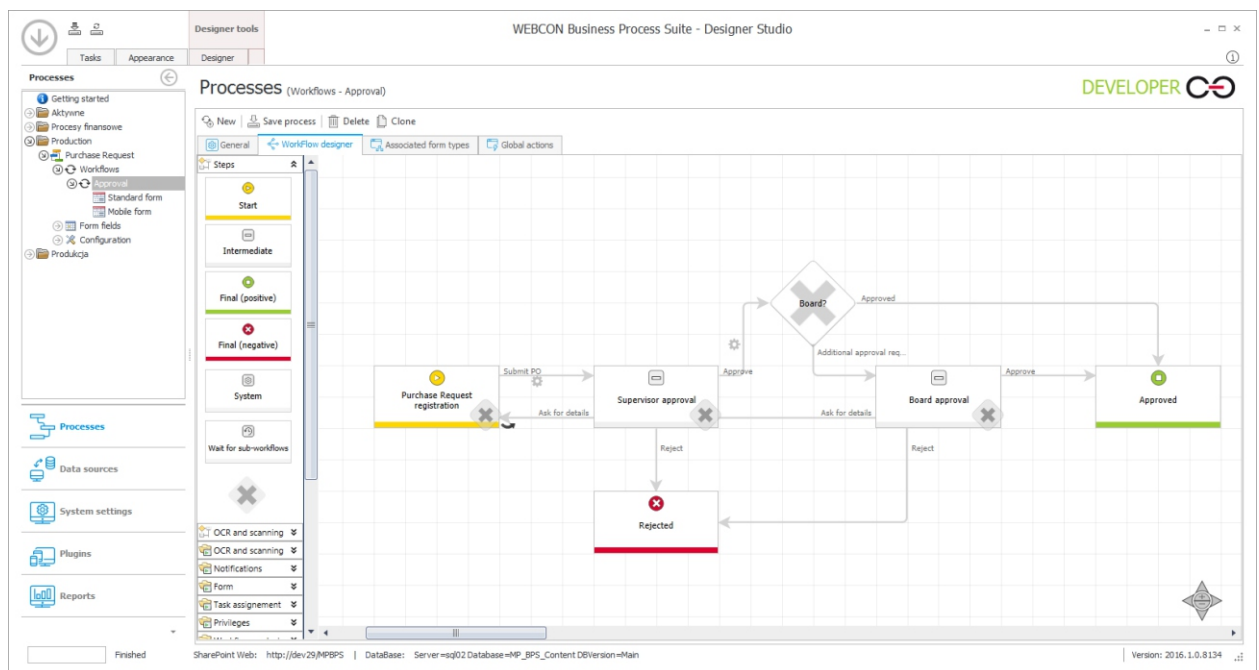
Visible Read-only Read only (cannot be modified except by JavaScript) Required

Finished SharePoint Web: http://dev29/MPBPS | DataBase: Server=sql02 Database=MP\_BPS\_Content DBVersion=Main | Version: 2016.1.0.8134

# 03 DESIGNER STUDIO AND GRAPHICAL EDITOR REVAMPED

The 2016 version sees an extensive facelift of Designer Studio. The application has been equipped with a modern skin, which meets current standards and trends.

The graphical workflow editor has also undergone considerable changes. Its graphical elements have been simplified and now combine minimalism with functionality. Other improvements include all elements associated with dragging and dropping steps and paths. Instead of selecting less frequent types of steps from the configuration view (e.g. Wait for Subworkflows), they can also be dragged and dropped.



Furthermore, the arrangement of individual elements of the process tree has been changed to a more intuitive one to meet implementation realities.

# 04 SUPPORT FOR SHAREPOINT 2016

WEBCON BPS 2016 is fully integrated with the newest version of SharePoint (2016). As far as the end user's interface is concerned, the system behaves the same as in the previous version of Microsoft's platform. The appearance and colors of the forms and webparts will be adapted to SharePoint's interface.

The screenshot displays the WEBCON BPS 2016 interface within a SharePoint 2016 environment. The top navigation bar is red with the 'SharePoint' logo and user information 'Michal Rykiert'. The main content area shows a 'Purchase Request' form for 'WEBCON BPS' with the ID 'PR/2016/0009'. The form includes a sidebar with navigation links, a main form area with fields for requisition details, and a right-hand panel with task details and a 'Purchases vs budget (YTD)' bar chart.

**Information**

- Process: Purchase Request
- Form type: Purchase Request
- Workflow: Approval
- Steps:
  - Purchase Request registration
  - Manager approval
  - Approved
- Details:
  - Created by: Michal Rykiert
  - Created date: 8/9/2016
  - Modified by: Michal Rykiert
  - Modified: 8/9/2016
  - Version: 2
  - Assigned to: Luke Skywalker
  - Process supervisor: Luke Skywalker
  - History
  - Instructions

**Requisition**

Photo:

Name: Michal Rykiert

Applied on: 8/9/2016

**Details**

Category: Software

Title: WEBCON BPS

Description: WEBCON BPS

**Additional opinions**

Supervisor opinion: Looks perfect to me

**Requested items**

Please choose items to apply for.

Requested item *	Qty *	Price *	Value *	Actions
ADD			0.00 €	

**Task details**

**Manager approval**

Please verify the Purchase Request form submitted by your employee.

**Reports**

OTHER PURCHASE REQUESTS | ALL FIXED ASSETS | BUDGET SPENDING

**Purchases vs budget (YTD)**

Grouped | Stacked

Purchases Value (YTD) | Current Year Budget

Current year to date

**Attachments**

ALL ATTACHMENTS

If you are planning migration to the newest version of SharePoint, contact WEBCON's technical support department or a WEBCON partner.

Please note WEBCON BPS 2016 does not support SharePoint 2010 or previous versions of this platform.

# 05 OCR – CUSTOM DOCUMENT RECOGNITION TEMPLATES

The previous release of WEBCON BPS (8.3) introduced a completely new, neural network-based OCR technology. Its advantage is the fact that it can be taught to increase recognition accuracy. The new solution was first applied to Polish cost invoices, where a universal template was used, recognizing the sales date, net/gross amount, or bank account number.

**Vendor information**

Vendor \*

Vendor ID

Full address

Zip code

Street name

City

Phone number

**Document information**

Invoice number \*

Invoice date \*

Invoice date

**Document dates**

Delivery date \*

Delivery date

Payment term

**WEBCON®**

**WEBCON Sp. z o.o.**  
 ul. Babieńskiego 69  
 30-393 Kraków  
 phone: +48 12 443 13 90  
 VAT ID: 676-241-40-97

**TO:**  
 Joe Black  
 Dark Street, District Robber  
 6669 Ankh - Morpork

**COMMENTS OR SPECIAL INSTRUCTIONS:**

SALES PERSON	P.O. NUMBER	REQUISITIONER
Steve	666	Joe Black

The 2016 release of WEBCON BPS is another milestone in the development of OCR potential as it introduces the option of creating so-called custom fields (not recognized in the universal recognition template). This allows for application of the recognition mechanism to numerous document types.

Custom field creation is intuitive and does not require any special knowledge or programming skills. To ensure that the desired data is recognized correctly, it is necessary to teach the neural networks which information to find and where to find it. This is an easy process, based on specifying the appropriate values from the scan preview and selecting the teaching path on the form. It will be more effective with each iteration.

The following validation mechanisms can also be used to increase recognition accuracy:

- Regular expression – all standard fields can be validated with regular expressions, which sees the system recognize only the information fulfilling specific conditions
- Data source – when it is possible to predict what kind of data will appear on the document (e.g. bank account number, phone number), a data source can be assigned to a custom field and the system will recognize only the information contained in the source file prepared earlier (e.g. a list of bank account numbers of all business partners)

### ***Application examples***

*Thanks to the new possibilities offered by OCR in WEBCON BPS, it is now possible to create content recognition templates for various types of documents, including the less typical ones. The custom field creation function allows for e.g. creation of a mechanism recognizing the information from collected business cards. All you have to do is take a picture and upload it to the system (manually or by email), which will read the information such as first and last name, email address, company name, etc., thus considerably reducing the time required to enter the information into the database.*

Train

<input type="checkbox"/> Name	Lukasz Wróbel
<input type="checkbox"/> Position	Chief Business Development Officer
<input type="checkbox"/> Mobile	+48 600 922 611
<input type="checkbox"/> Telephone	+48 12 443 13 92
<input type="checkbox"/> E-mail	lukasz.wrobel@webcon.pl



There are plans to introduce more functions to expand OCR capabilities in future versions of the system, including the option to recognize complex phrases or questionnaires.

## 06 CREATION OF SQL QUERIES SIMPLIFIED

### NEW QUERY CREATOR FOR THE SQL GRID FIELD

Following the business rules engine, the next change which aims to make it easier to use the information in the database is the new SQL query creator for the SQL Grid field.

In many cases, it is required to display a list of related or subordinate elements in the form. The SQL Grid field, which displays the data returned in the manner specified by an SQL query, is very useful here. For user convenience, the metadata concerning the associated elements are provided with a hyperlink to the given element.

The 2016 version introduces a modified creator, which allows for very quick creation of SQL queries for the SQL Grid field. Knowledge of the database structure or writing queries is not required.

The creator provides three modes, which narrow down the results to:

- All child instances
- Selected child instances
- Selected child instances with field relation

The creator also enables to choose which metadata of the form should appear in the table. The creator generates an SQL query. The query will contain all the elements selected during the configuration process and will be ready for use with the SQL Grid.

## INCREASED SQL QUERY TRANSPARENCY

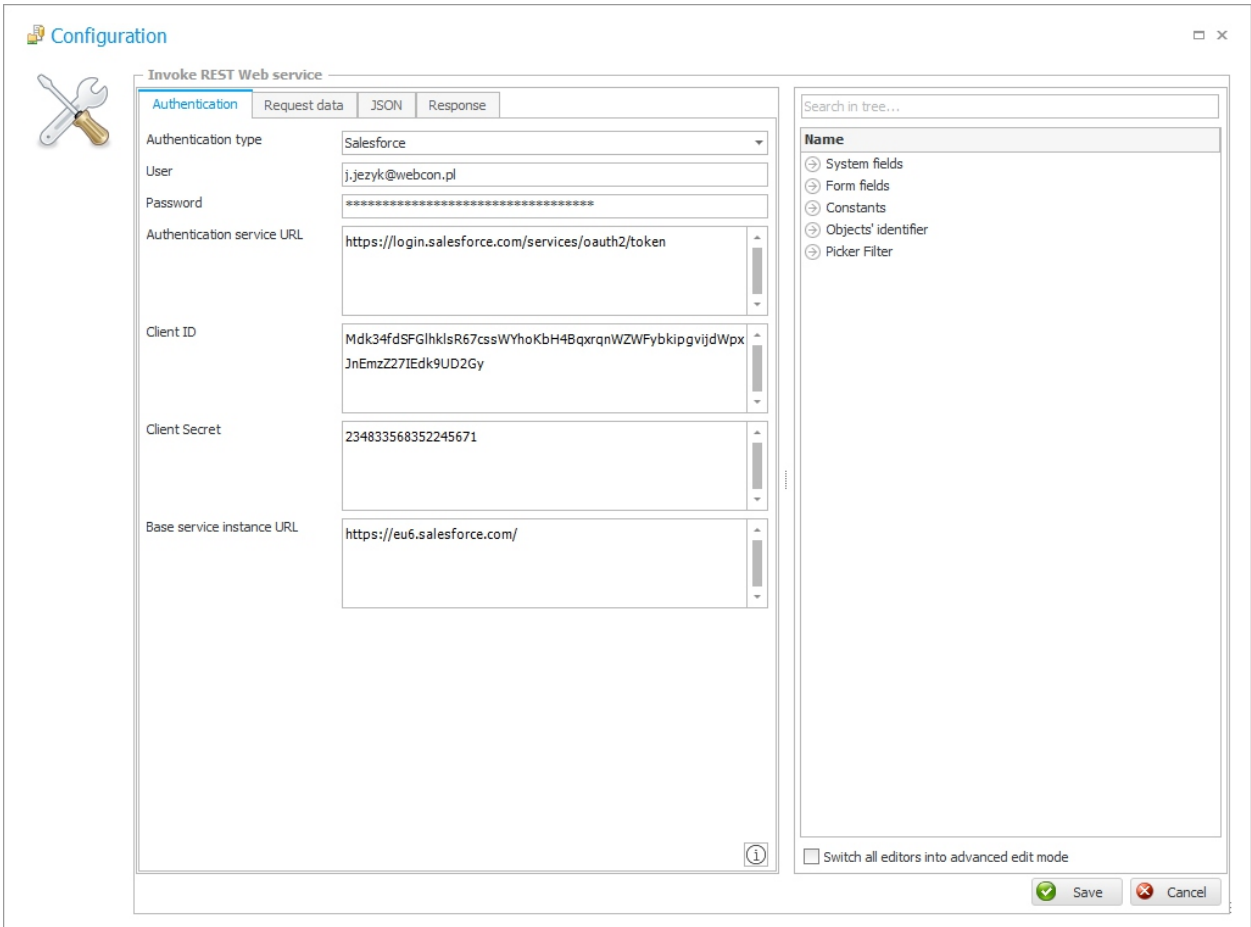
When creating SQL queries, it is often necessary to refer to the data contained in the processes that are external to the one that is being configured. In order to work with attribute values, one has to know the names of the columns where they are stored (e.g. WFD\_AttDateTime1 for data field). The 2016 version allows for dragging the variable from the editor, which will not only display the name of the column in the database but will also indicate the name of the field displayed to end users. As a result, SQL queries are more legible and easier to understand in the business context.



# 07 REST WEB SERVICE INVOCATION EASIER THAN EVER

## Invoking REST Web Service

As we develop the system, we strive to make it as easy to use as possible and provide many options available without having to write the code to use them. This strategy has produced the debut of a dedicated action invoking REST Web services, which is an excellent and easy-to-use connector for systems such as Salesforce or Microsoft Dynamics CRM. To collect data, configure the action and invoke it at any stage of the process. The data both sent and returned by the service can be easily mapped into appropriate form fields, saved in the database, or displayed in the form.

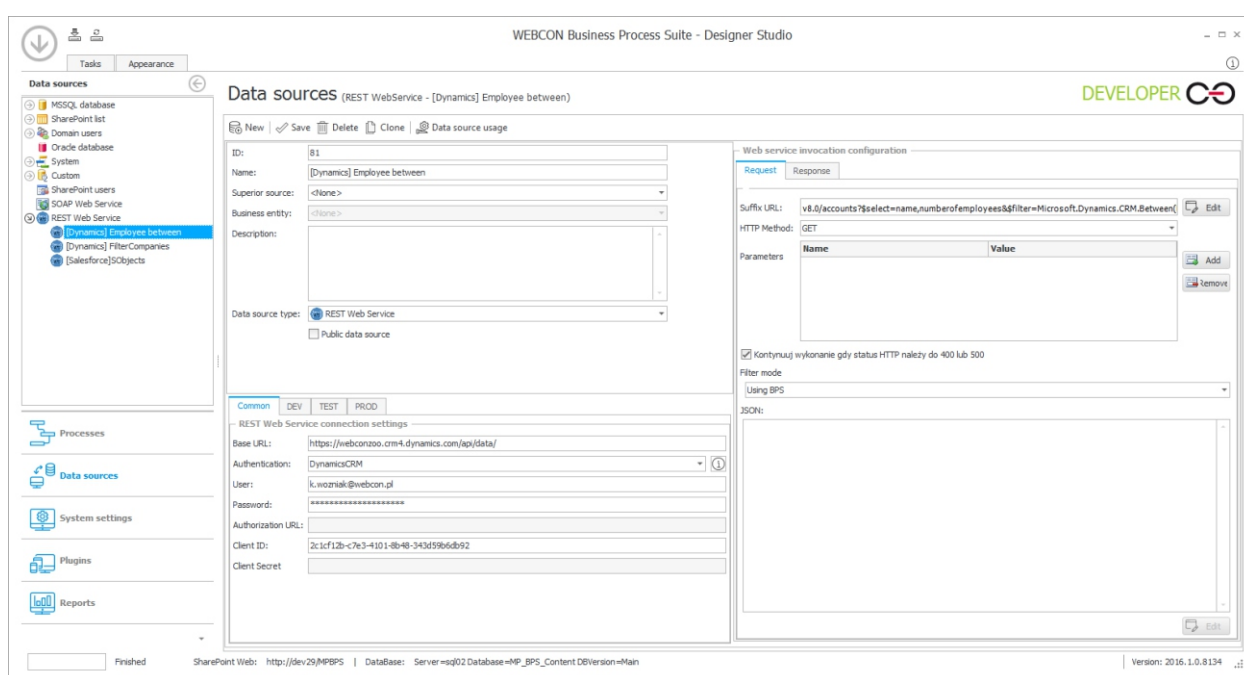


The screenshot shows a 'Configuration' window titled 'Invoke REST Web service'. It features a sidebar with a wrench icon and a main area with tabs for 'Authentication', 'Request data', 'JSON', and 'Response'. The 'Authentication' tab is active, displaying fields for 'Authentication type' (Salesforce), 'User' (j.jezyk@webcon.pl), 'Password' (masked), 'Authentication service URL' (https://login.salesforce.com/services/oauth2/token), 'Client ID' (Mdk34fdSFGlhklsR67cssWYhoKbH4BqxrqnWZWfYbkipgvijdWpxJnEmz2Z7IEdk9UD2Gy), 'Client Secret' (234833568352245671), and 'Base service instance URL' (https://eu6.salesforce.com/). A right sidebar shows a 'Search in tree...' field and a list of 'Name' items: System fields, Form fields, Constants, Objects' identifier, and Picker Filter. At the bottom right, there is a checkbox for 'Switch all editors into advanced edit mode' and 'Save' and 'Cancel' buttons.

## WEB SERVICE REST AS A DATA SOURCE

To further facilitate integration with external systems, we have also included the option of creating a data source based on the REST Web Service.

This source allows for invoking the REST Web Service with any JSON object and using both constant values and (dynamic) field values. Similarly to the SOAP source (introduced in version 8.3), there is also the option of choosing the source data filtering method through the Web Service or through WEBCON BPS.



The embedded authentication templates allow for quick configuration and activation of a source collecting data from the systems, i.e. SalesForce or Dynamics CRM, thanks to which integration with said systems does not require implementation of data sources with SDK.

***Application example***

*Using the REST Web Service as a data source makes it possible to easily use data stored in Salesforce via form in WEBCON BPS. For instance to select a vendor. If it is not in Salesforce database, WEBCON BPS provides the option of adding a new record through the same interface, with no need for direct intervention in Salesforce.*

## 08 WEBCON BPS DATABASE ARCHIVING

For the benefit of the clients who have been using WEBCON BPS for years, the newest version of the system offers data management and archiving mechanisms, which reduce the production size of the database while providing the same access to desired information.

The archiving mechanism allows for moving data from the production database to the archive database from the level of the action performed by the system.

There are three modes of managing archive data:

- Move to archive database – the workflow instances will be saved in a separate database but on the same server. This makes it possible to view archive information from an appropriately configured Show Workflow Elements Web Part. This option provides the user with access to all historical data and related attachments
- Move to external network location – the workflow instances will be saved on a selected network drive as .zip files containing a PDF file with form metadata, an XML file with the history of the workflow element, and attachments (with the option of archiving only their most recent versions)
- Remove from content database – selected workflow instances will be completely removed from the operating database and no copies will be saved

The archive data management mechanisms are available and executable from the level of the new “Archive elements” action.

# 09 FUNCTIONAL IMPROVEMENTS

## DYNAMIC GENERATION OF HYPERLINKS ON SWE REPORTS

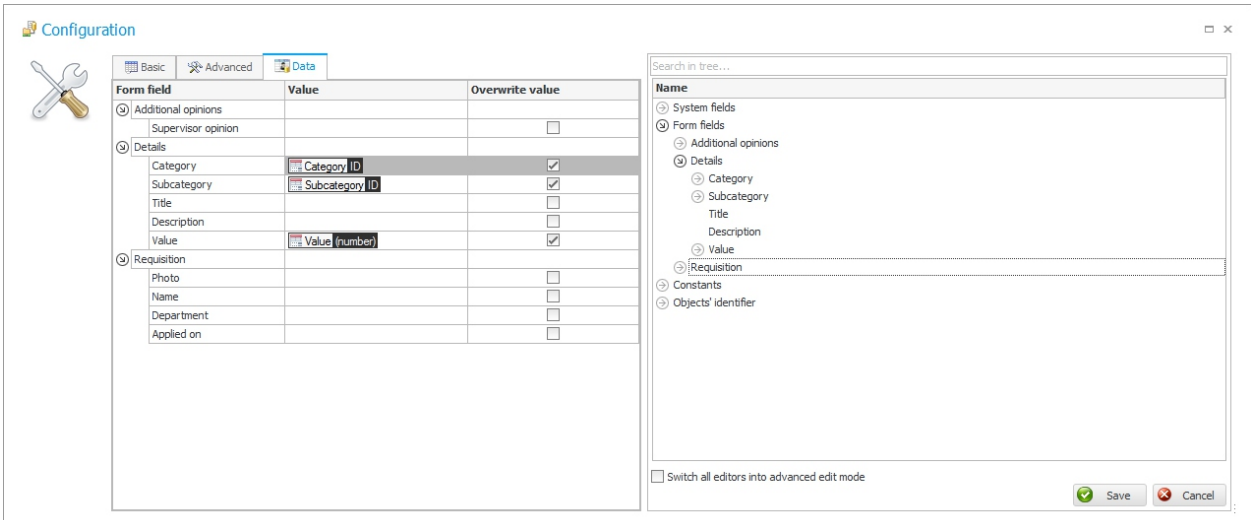
The newest version of the system increases the functional range of the calculated fields presented in the Show Workflow Elements Web Part. Now, the values in the calculated column can be displayed as hyperlinks. This enables to generate dynamic links in SWE reports, which for example makes it possible to display and access related purchase orders on a list of all invoices, with no need for a manual search.

<span>Q SHOW SEARCH PANEL</span> <span>RELOAD</span>				
Invoice number	Step	Assigned to	Gross amount	Purche order
FK/2016/07/00007	Verification	Tom Green	7200.00	<a href="#">ZAM/2016/0008665</a>
FK/2016/07/00006	Acceptance	Jacek Język	4800.00	<a href="#">ZAM/2016/0003445</a>
FK/2016/07/00005	Acceptance	Jacek Język	3560.00	<a href="#">ZAM/2016/0003442</a>
FK/2016/07/00004	Accounting control	Marcin Kapusta	5000.00	<a href="#">ZAM/2016/004456</a>
FK/2016/07/00003	Acceptance	Jacek Język	2900.00	<a href="#">ZAM/2016/0002766</a>
FK/2016/07/00002	Verification	Tom Green	3500.00	<a href="#">ZAM/20160/0003</a>
FK/2016/07/00001	Accounting control	Marcin Kapusta	1200.00	<a href="#">ZAM/2016/000234</a>

## EXPANSION OF THE UPDATE PARENT WORKFLOW ACTION

The newest version of the system offers an expanded “Update parent workflow” action, which now has the option of selecting the dependent workflow instance using an SQL query and by selecting the form field storing the ID of the related element. As a result, the workflow has much more potential in updating related instances.

Expansion of the action is accompanied by the change of its name to “Update related workflow instance”.



The screenshot shows the 'Configuration' window with the 'Data' tab selected. The window contains a table with columns 'Form field', 'Value', and 'Overwrite value'. The table lists various form fields and their corresponding values, with checkboxes for overwriting values. On the right, there is a search tree with a search bar and a list of categories including System fields, Form fields, Additional opinions, Details, Category, Subcategory, Title, Description, Value, Requisition, Constants, and Objects' identifier. The 'Value' field is highlighted in the table, and its value is 'Value (number)'. The 'Overwrite value' checkbox for 'Value' is checked. The search tree on the right shows a hierarchical structure of the system's data fields.

Form field	Value	Overwrite value
Additional opinions		<input type="checkbox"/>
Supervisor opinion		<input type="checkbox"/>
Details		<input type="checkbox"/>
Category	Category ID	<input checked="" type="checkbox"/>
Subcategory	Subcategory ID	<input checked="" type="checkbox"/>
Title		<input type="checkbox"/>
Description		<input type="checkbox"/>
Value	Value (number)	<input checked="" type="checkbox"/>
Requisition		<input type="checkbox"/>
Photo		<input type="checkbox"/>
Name		<input type="checkbox"/>
Department		<input type="checkbox"/>
Applied on		<input type="checkbox"/>

## MOVING AND COPYING ATTACHMENTS BETWEEN WORKFLOW INSTANCES

The new version of the system also includes moving and copying attachments, which is very useful in all kinds of quality management processes (e.g. ISO). It allows for all mandatory and accessible documents and procedures to be stored in WEBCON BPS in scope of an archive workflow and be easily modified (with acceptance) in a separate documentation change management workflow. Then, after the final acceptance, the documents in the archive workflow can be overwritten (a new file version is created) or replaced with new ones (the original version is always available).

## CHANGED STRUCTURE OF TREE ELEMENTS IN DESIGNER STUDIO

The changes to the process tree element structure are aimed to improve work with Designer Studio. The global form template and field matrix are now available under the name "Standard form" directly under the configured workflow definition. The display settings for mobile devices ("Mobile form") are also presented below.

Furthermore, all configuration options not associated directly with business logic of the workflow (steps, paths) and form fields are available in the "Configuration" node, which also holds form types (formerly known as document types), action templates, business rules, and constants.

## CYCLICAL ACTIONS – PARALLEL EXECUTION

The 2016 version also brings changes to the mechanism of cyclical actions defined in the workflow definition. The introduced changes see cyclical actions being activated in multiple layers. When the activation cycles overlap in time, each action will be activated independently and they will be performed simultaneously. Similarly, when activation of an action is prolonged and overlaps with the activation cycle of a different action, it will not stop the activation. The new action will be started independently in a different layer, which makes it possible to activate it precisely at the configured time.

The described changes introduce superior precision and repeatability of cyclical actions, which consequentially improves the stability of the BPS functions based on this element.

## NT authentication in Designer Studio

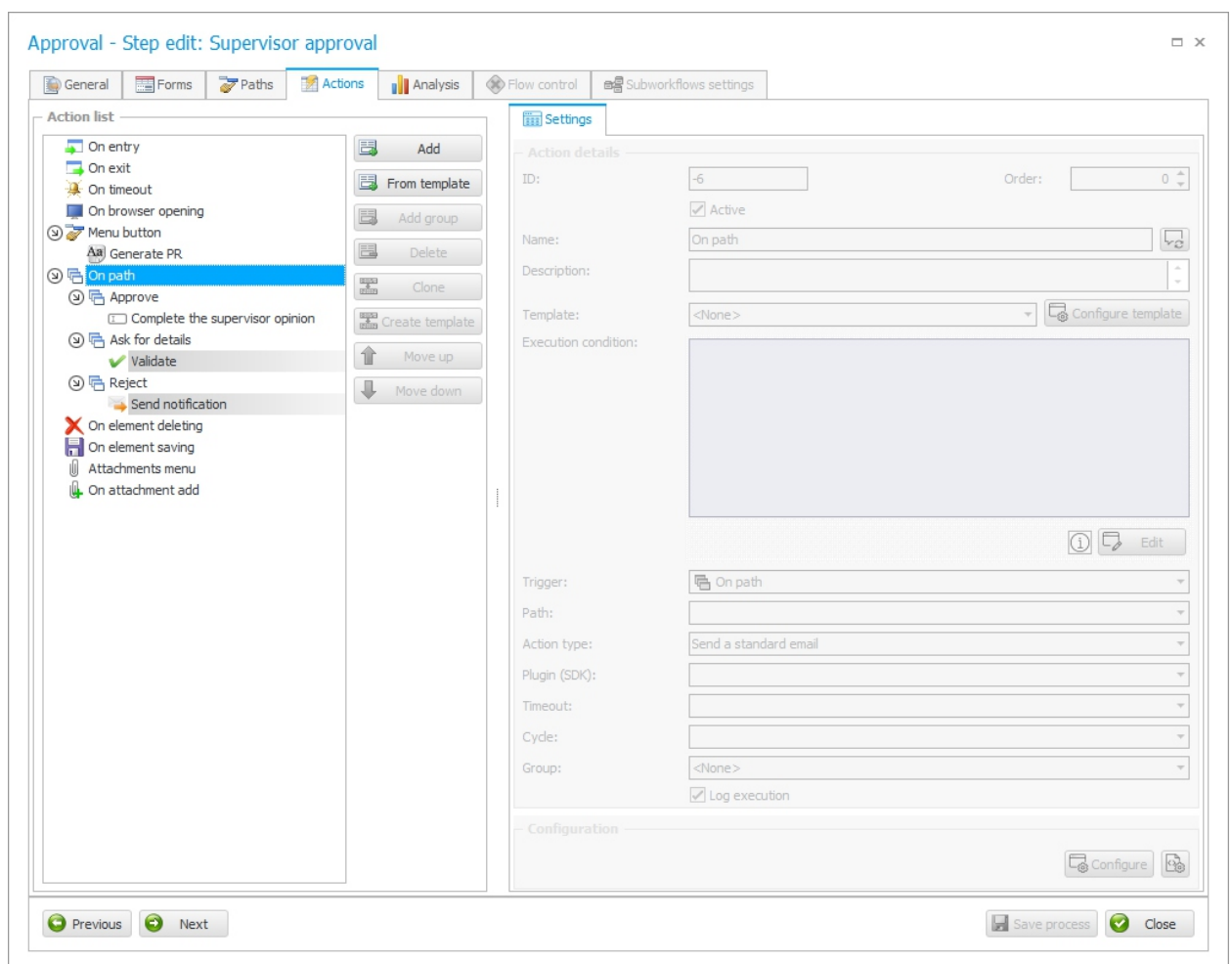
WEBCON BPS Studio activation and process changing requires appropriate authentication. The 2016 version allows to enter the domain user and authentication password on start-up. This function enables users to work with BPS Studio on computers outside of the company's domain.

# 10 ERGONOMIC IMPROVEMENTS

Each new version of the system introduces changes aimed to improve the ergonomics of WEBCON BPS. The 2016 introduces the following improvements:

## Path as a node in action configuration

When there are multiple paths defined in the step, the list of actions presents information on the path used for configuration of the given action. This makes action management easier and more transparent.





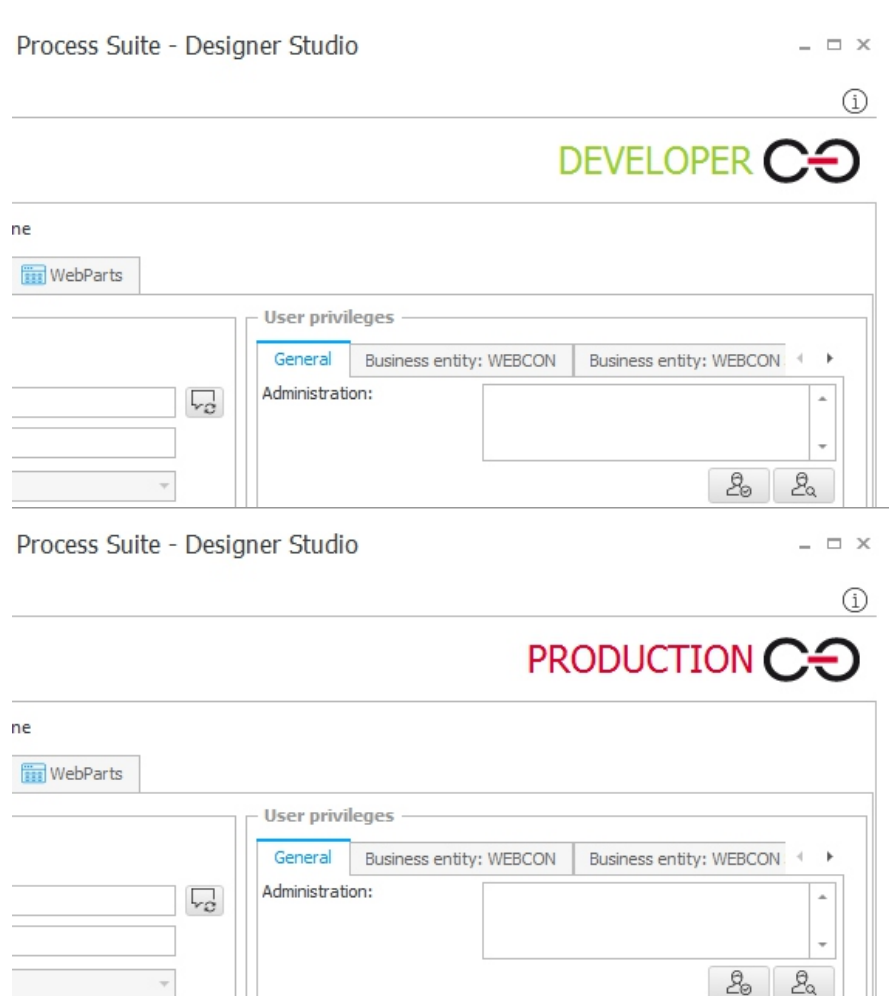
## GANTT CHART – DISPLAYING DATA WITH HYPERLINKS

The Gantt Chart Web Part allows for graphical data presentation. The new version of the system allows users to click on the given chart element in order to open the form associated with the given task. This makes task viewing more intuitive and less time-consuming.

## Easy identification of the DEV/TEST/PROD environment

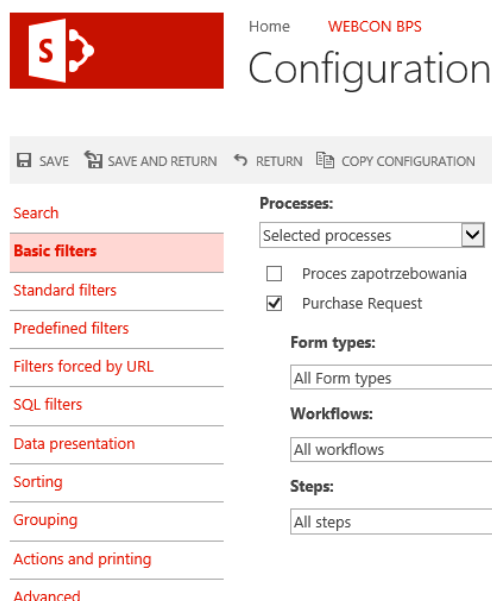
When working under the regime of the development, testing, and production environment with the export-import mechanism (introduced in version 8.3), correct identification of the environment hosting WEBCON Designer Studio operations is extremely important.

The newest version makes this process much easier by introducing clear and legible information on the environment type in the top right corner of the application.



## CONFIGURATION SCREEN FOR WEB PARTS SWE AND SWC

The Configuration screen for the Show Workflow Elements and Show Workflow Charts Web Parts has also undergone ergonomic improvement. Right now, all settings are categorized into sections, making the screen clearer and easy to use.



## CHANGES TO WORDING AND TRANSLATIONS

Due to the ongoing development of the system, its functions and the opinions of our clients and partners, we have decided to review the wording used in Designer Studio. We have made changes with the aim of making the names more understandable and corresponding to the actual state. This is important, especially for those who begin their adventure with WEBCON BPS. The list of changes and appropriate comments is presented below.

WORDING IN VERSION 8.3	WORDING IN VERSION 2016	COMMENT
Document	<b>Workflow instance</b>	The change concerns a single, started workflow and is made to clearly distinguish between the document (file) and individual instance of a (started) workflow
Related documents	<b>Related workflow instance</b>	Change resulting from the one above
Document type	<b>Form type</b>	Since previously document type referred to the type of fields displayed on the form, the name document type is changed to form type
Document subtype	<b>Form subtype</b>	Change resulting from the one above
Related document types	<b>Related form types</b>	Change resulting from the one above
Variables	<b>Constants</b>	Name change of feature introduced in WEBCON BPS 8.3 since it allows for definition of constant values for use in various processes. The values may differ due to the used environment, but do not change dynamically within a single environment.
Attachment attributes	<b>Attachment details</b>	Change made to increase transparency of options included into the Attachment details node.
Action type	<b>Trigger</b>	Change made to increase transparency of configuration. Word "trigger" clearly defines that the purpose of this configuration window is to decide where in the workflow a given action will be executed.
Action kind	<b>Action type</b>	Change made to increase transparency of configuration.
Tags	<b>Variables</b>	In the creation of SQL and JavaScripts with appropriate editors, from now on all values within are called variables. Consequentially, new users find it much easier to understand their functions.