





Activities ~

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Miscellaneous Activities

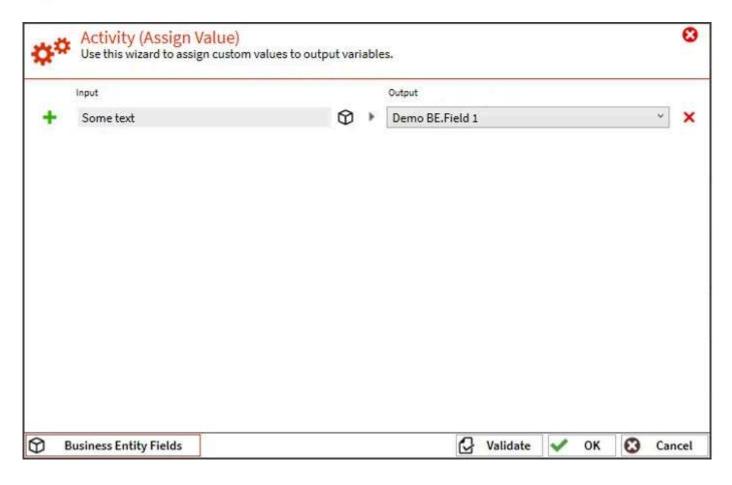
This topic contains all different kinds of activities, which are not quite assignable to a specific section. The following activities are included:

- Assign Value
- Calculator
- Convert HTML to PDF
- DocuSign
- Execute PowerShell Script
- Fill PDF Form Fields
- Generate Document
- Generate Password
- Muhimbi Document Converter
- PDF Merge
- Read CSV
- Regex String Search
- Social Networks
- Transfer File
- Write to CSV
- XML Builder

Assign Value

The assign value activity is used to assign values to workflow variables or business entity links. Use the + button to add new value to assign. You can add up to ten values and by checking the **Show system** fields in the Business field selection is possible to show system variable that helps the assignment of values with more available fields.





Calculator

The calculator activity is used to perform various arithmetic operations (+, -, *, /, %), square roots, exponentiation, logarithmic functions and trigonometric functions. The input can either be a static value or can be bound with a workflow variable or business entity link. With the Add text field button is possible to perform operation on static field and workflow variables or business entities.

sqr(x) -> square root

 $abs(x) \rightarrow absolute value$

 $x^y -> power$

 $log(x) \rightarrow logarithmic$

fac(x) -> factorial

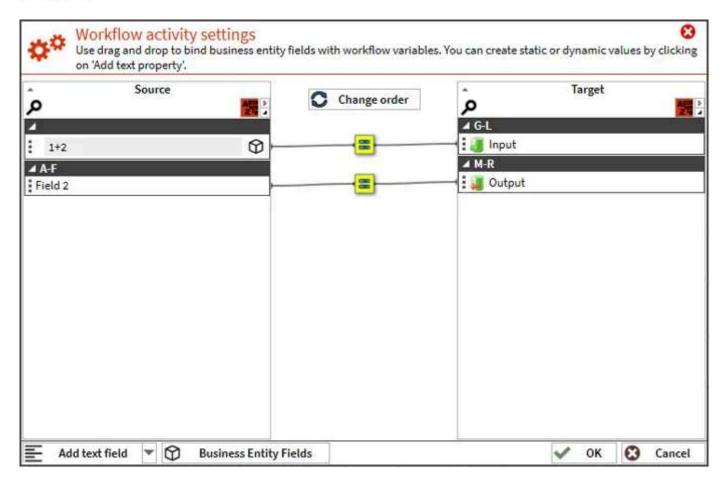
sin(x) -> sine

 $cos(x) \rightarrow cosine$

tan(x) -> tangent

With the bottom right white button is possible to configure an action in case of exception, e.g. division per 0.





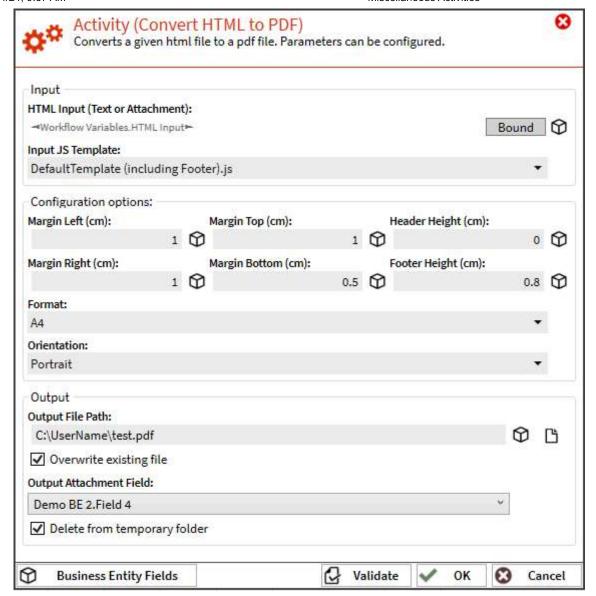
Convert HTML to PDF

The activity enables to convert an HTML file to a PDF file. The HTML file can be inserted as text or with an attachment field. After that, a template can be chosen where the margins and format are automatically replaced with the values you chose to configure, different templates can be added and stored under this path: .. <FireStartInstallDir>\FireStart Resources\PhantomJS\Templates.

Make sure the field format and orientation are set. With the bottom right white button is possible to configure an action in case of exception like fault in conversion. For more information regarding the templates, please see the PhantomJS documentation: https://github.com/ariya/phantomjs.

The PDF can be stored locally on the server or again in an attachment field.



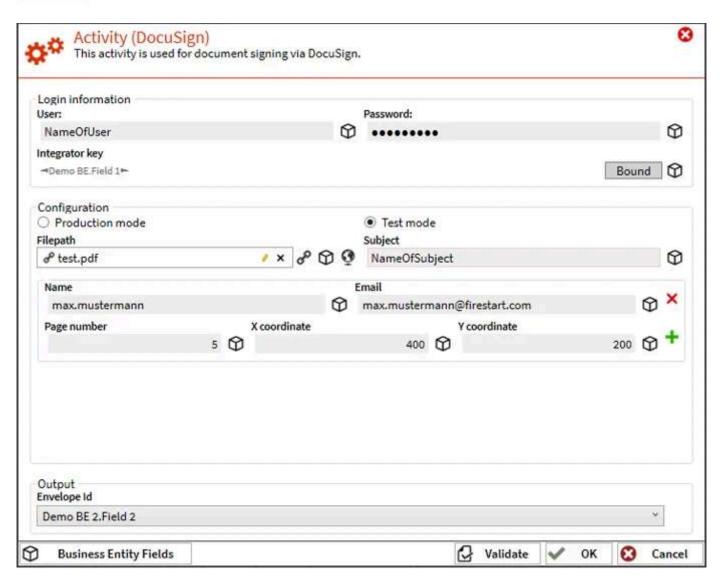


DocuSign

This activity is used to sign documents with DocuSign. The option of the signature field can be defined with x\y coordinates (expressed in pixels, 1cm~37px). Multiple signature fields can be used in one document. The envelope id can be used in an intermediate event to wait for the completion of the signing process. You can also specify on which page you would like to add the signature in the field Page number. Test/Production mode can be switched, further information about those two modes can be found here: https://www.workbooks.com/help/production-vs-sandbox. Name and Email field establish the recipient/s of the document.

DocuSign uses the OAuth 2.0 authentication method. Basic authentication is no longer supported. For all new DocuSign Activities, OAuth 2.0 will be used by default, and it is not possible to use Basic Authentication. Existing activities need to be converted to use OAuth. To do so, open an activity, click the **Convert to OAuth** button, click **OK**, and save the process model. Note that this cannot be reverted to use Basic authentication again.





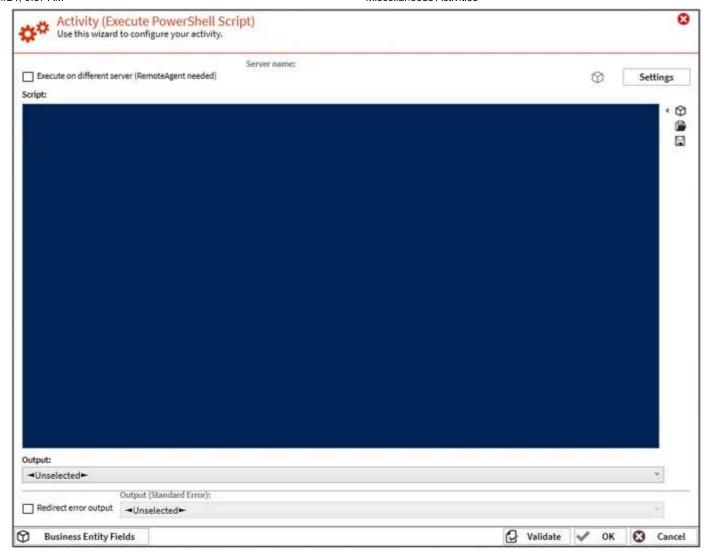
Execute PowerShell Script

This activity is used to execute a PowerShell script. By default, the script runs on the server on which the FireStart Server is running. If the option "Execute on different server" is activated, the script can also be executed on any server with a

running RemoteAgent. Within the settings, the PowerShell can be kept alive for a certain time after execution of the script and the standard timeout can be switched off. The return value of the script (output) is written to the business entity field selected in the drop-down box. The load and save dialog allow the storage and re-using of scripts. They are located at <FireStartInstallDir>\FireStart Resources\Activities\Execute

PowerShell Script, therefore, the scripts are accessible by all process modellers on a FireStart server. Furthermore, scripts can be copied to the folder from any external source. As the scripts sometime requires authentication information, it is recommended to take security considerations into account. Functions like ConvertTo-SecureString and ConvertFrom-SecureString might be helpful here. For more information and best practice articles, see https://www.pdq.com/blog/secure-password-with-powershell-encrypting-credentials-part-1/.

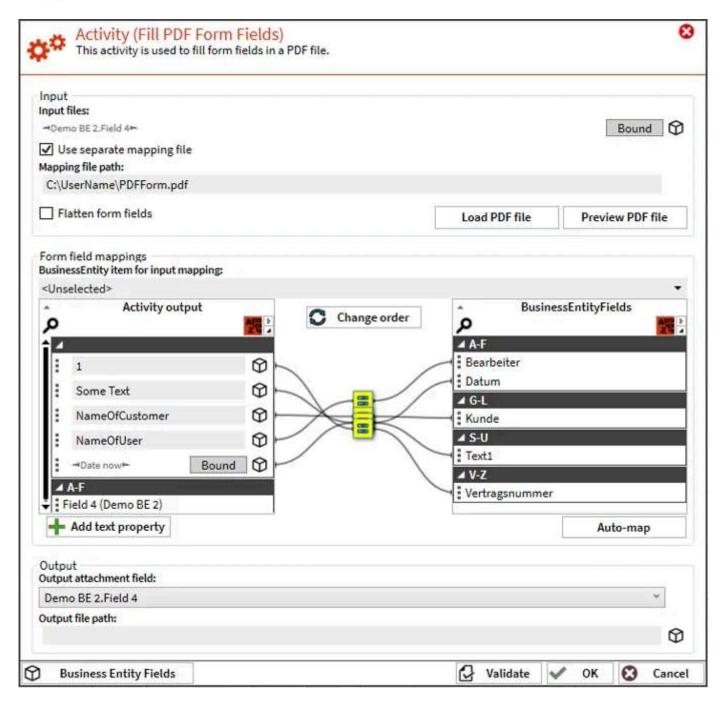




Fill PDF Form Fields

The Fill PDF Form Fields is used for filling a PDF form with data. First, there needs to be an input file specified. The path for input files points to the server (not to the client), therefore a network drive would be a good solution to avoid having to store PDFs directly on the server. After that, the mapping between the PDF fields and the input needs to be set. By clicking 'Load PDF File' the fields available in the PDF will be visible, Business Entity item can be chosen from the dropdown menu, then is possible to drag and drop different business entities field into the fields loaded from the PDF. A different file can be specified to define the mapping by checking the box 'use separate mapping file' and upload another file, the fields will be uploaded directly from this file. Finally, it needs to be specified where the finished PDF file should be saved on the server.





Generate Document

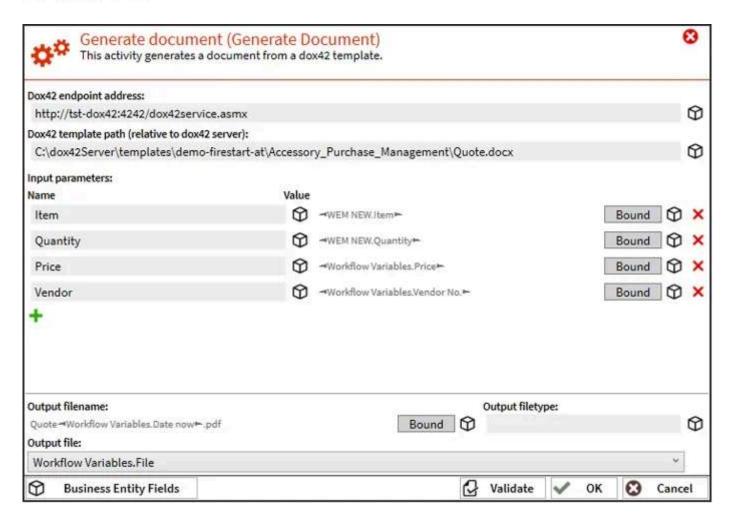
The Generate Document (dox42) activity enables to pass data and generate a document based on a deposited Word template. The template itself can be designed using the

dox42 plugin (https://www.dox42.com/Modules/dox42-Office-Add-Ins). During the generation, the placeholders in the Word template are replaced by the actual data you pass in the activity.

More info are available in this

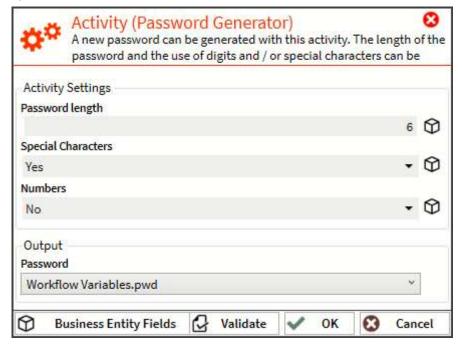
file: https://www.dox42.com/Download/dox42 AX Documentation EN.pdf.





Generate Password

This activity is used to generate a random password of a given length. It can also be specified if the generated password should contain special characters and/or numbers.



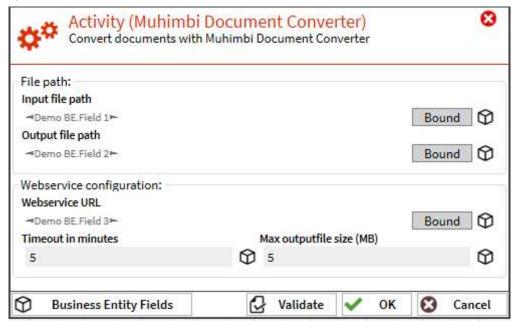
Parameters

Name	Usage	Description
Password length	Required	The length of the generated password
Special Characters		Set to yes, if the generated password should include special characters. { @, ., -, &, \$, \$, #, :, ,, ;, *, +, %, =, /, (,), {, }, [,], !, }
Numbers		Set to yes, if the generated password should include numbers.
Output Password	Required	The target field the generated password is written to.

Muhimbi Document Converter

With this activity, an HTML file is converted to a PDF file. A Muhimbi web service must be available and specified.

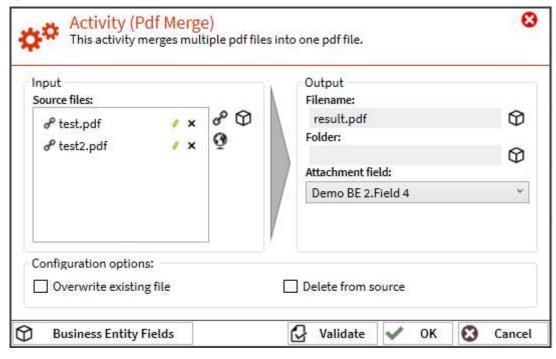




PDF Merge

This activity merges given PDF files. You can select multiple PDF files and they will be merged and stored in a single PDF file on the server. There is also the possibility to store them in a Business Entity field by specifying it in attachment field. With the Configuration option you can delete the file from the source or even overwrite the existing file with the same name. Batch merge is possible by storing multiple files in one variable of type attachment field.



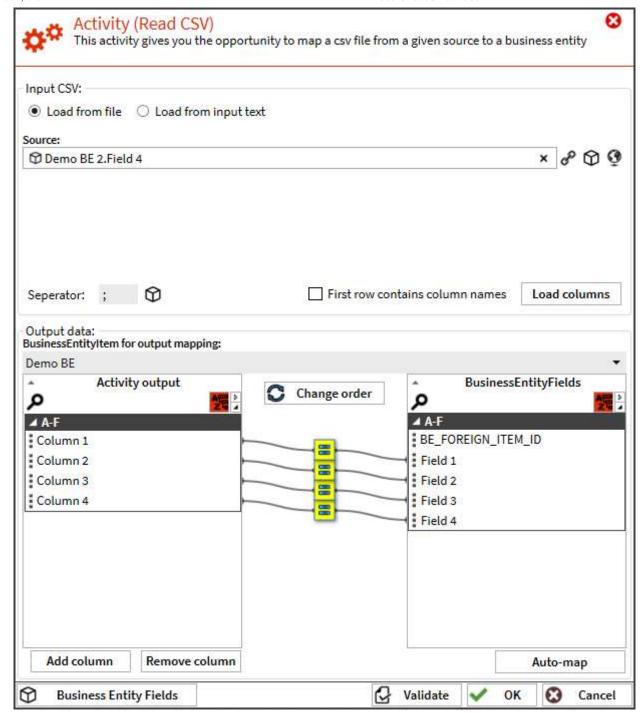


Read CSV

With this activity, a CSV file can be read, and the values can be written into a business entity item. It's also possible to write a CVS string by hand by selecting the radio option Load from input text. Once the CSV is uploaded click on Load column and the different column will be mapped in the activity output section. If your column has a title, check the box First row contains columns names. Then is it possible to choose a business entity, the field of this will be mapped in the right section, map it with drag and drop.

Hint: The outcome of this activity will create multiple objects of the same BE, to go through the multiple objects of the mapped BE, the Loop activity is a good choice (<u>Loop info</u>).





Regex String Search

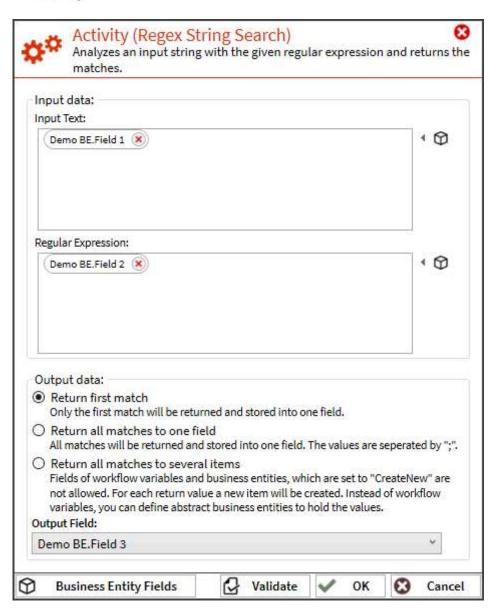
The Regex String Search activity looks for a specific string in a given input and returns it as an output, otherwise, it returns an empty field. Input output and Regex can be stored in variables. When Return all matches to several items is selected, then the output it will be stored in a field of a business entity and it will be possible to access the stored

element via loop. Here you can find more about Regular Expressions and how to build them: https://cs.lmu.edu/~ray/notes/regex/.

Miscellaneous Activities

Hint: The outcome of this activity will create multiple object of the same BE, to go through the multiple objects of the mapped BE, the Loop activity is a good choice (<u>Loop info</u>).

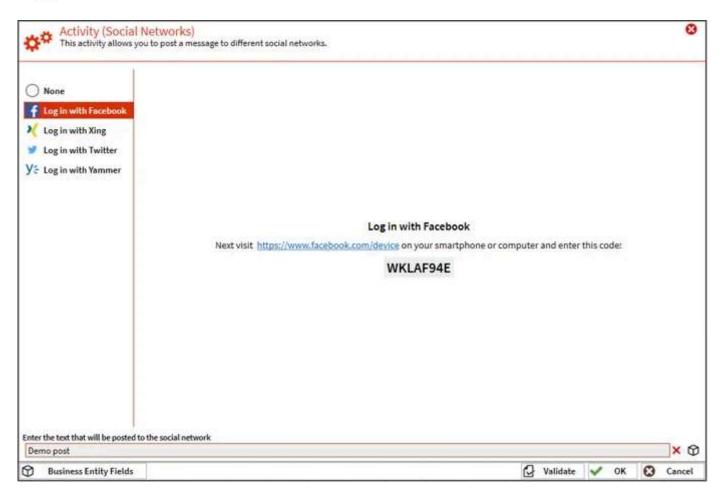




Social Networks

With this activity, a post can be created on different social networks. This requires an account in the selected network and during the configuration of the wizard the activity needs to be granted permission to post as the said account.

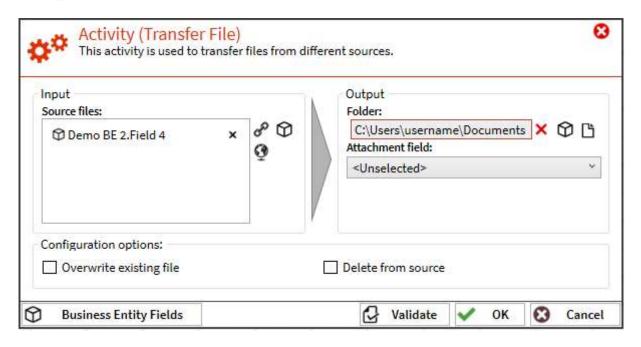




Transfer File

With this activity it is possible to move and copy files in the server, an input and output path is needed. The source file path or the file itself can be stored in a variable, same for the output file. With the Configuration option you can delete the file from the source or even overwrite the existing file with the same name. Batch transfer is possible by storing the files in one attachment variable.

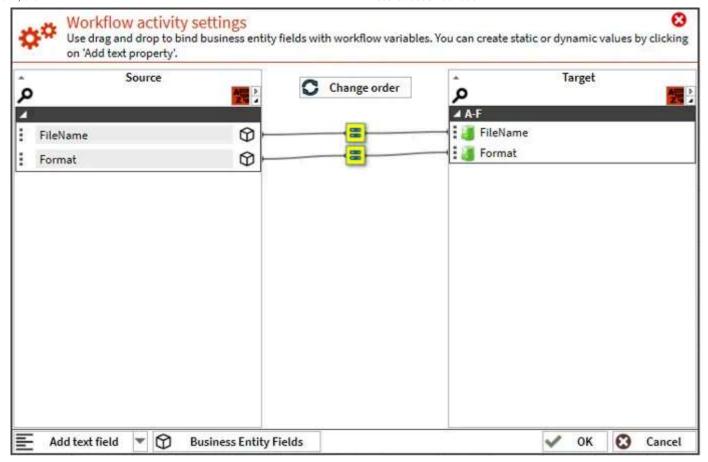




Write to CSV

The Write to CSV Activity adds text to a CSV file or creates a new CSV file. This can be used, to store database tables in a CSV file in order to be able to exchange them between different systems or programs. The parameter format must be connected to the desired text. This can also be dynamically mapped to a business entity link. The semicolon is used as a default separator between the columns of the CSV file and FileName parameter specifies to which file the text is written, a full path is suggested. The file path always refers to the server on which the workflow is executed, if the file does not exists it will be created, otherwise the outcome of the activity will be appended to the existing file. Is also possible to insert different row on the same column by looping the input.



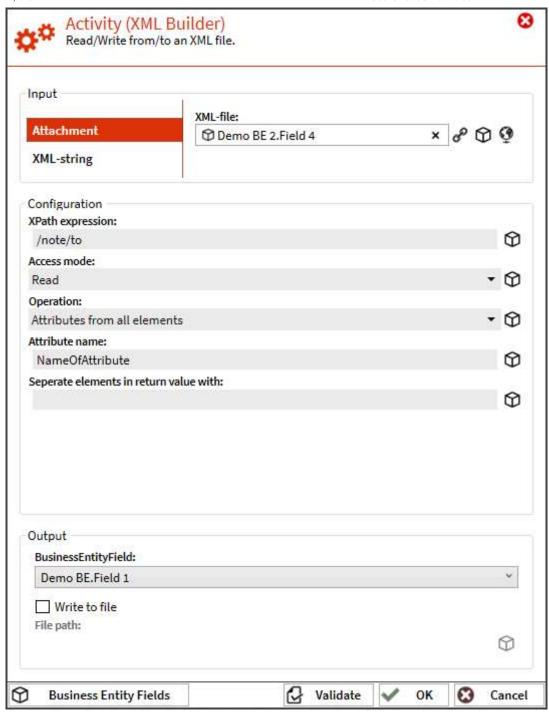


XML Builder

With this activity, data can be read and written from and into a XML file. The XML file field can be linked with a file on the server or variable. You can navigate in the different attributes of the file using XPath, here you can find further information: https://www.w3schools.com/xml/xpath_syntax.asp. The access mode

establish in which way we want to access the file we can read, add, replace or delete elements from the original file, the field Operation helps to point out where we do apply our access. In case we are going to set an attribute, the field attribute name will be shown. In the with value field one or more element can be specified. The input file is never effected, the modification will be always reflected in the output file, which can be either specified by a path on the server or be stored in a variable.





Was this article helpful? Yes No