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#### **Rules Matrix**

The Rules Matrix is used to evaluate Business Rules. Different matrices with custom columns can be produced. Then, the matrix rows are populated. These rows can be evaluated with the help of an actionhandler. The row with the highest hit rate is used as the result row. If the columns all match exactly, the row with the next best result is used.

### Creating a Matrix

A matrix can be created in the administrationsclient . In order to see the relevant tab, the current user must have the role as **rulesadministrator**.



With "Add matrix" it is possible to create a custom number of matrices. When clicking, a new pop-up window is opened, in which the matrix structure can be defined. First, the matrix needs a name (in this example "decision"). Also, the owner group of the matrix must be defined. All users in this group are able to see and change the matrix. Only groups to which the current user belongs are shown.



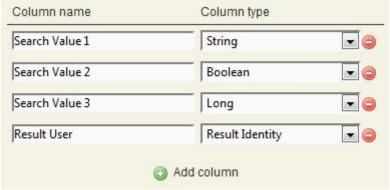
### **Define Columns**

For the next step, a discretionary number of columns is created. Every column needs a name and a

column type. A column type defines the type of content. Normal column types are used for evaluation, and "result" column types are used only for results and are not considered in the evaluation. There are several different column types:

Column Type	Description			
STRING	A normal character string where text can be defined.			
RESULT_STRING	Result column / A normal character string where text can be defined.			
LONG	This column is for integers.			
RESULT_LONG	ESULT_LONG Result column / This column is for integers.			
FLOAT	This row is for floating decimals.			
RESULT_FLOAT	Result column / This row is for floating decimals.			
BOOLEAN	This column is for true/false values.			
RESULT_BOOLEAN Result column / This column is for true/false values.				
IDENTITY	In this column, users that are created in the system can be chosen.			
RESULT_IDENTITY	<b>ESULT_IDENTITY</b> Result column / In this column, users that are created in the system can be chosen.			

The following example shows a matrix with three columns to be searched through. Each column has a different column type. There is also a result column, in which a user will be presented as the result.



Clicking on "save" creates the matrix, which can now be populated.

# **Populating the Matrix**

The following image shows an already-populated matrix. In this view it is possible to delete the entire matrix, to edit the matrix, to add new lines and to delete lines.



Element	Description
1	This button is used to delete the entire matrix.
2	This view shows all filled cells of the matrix.
3	This button is used for editing the matrix. It is not possible to change the column type of existing columns; however, they can be deleted an added anew.

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Element Description				
4	This button is used to delete rows.			
5	Here, new lines can be added.			

If one wants to add a new row, a pop-up appears. Various fields may be shown depending on the column type. For example, For string, a simple box appears. In identity, a list of all users is displayed. A list populated with either true or false is displayed when using Boolean.

If you select an asterisk "\*", this is seen as a Wildcard and any value will be used for matching.



### **Using the Matrix per Actionhandler**

Using the matrix per Actionhandler is described here: MatrixHandler

# **Evaluation Examples**

The filled example matrix presented above used as the basis for the following example evaluations. There are three search values and one result column. The following table shows the results of some fictitious evaluations. The following rules are applied:

- The line with the best match is presented as the result.
- If more than one line matches, the first match from the top is presented as the result.

Search Valu	e 1 Search V	alue2 Search Va	alue3 Result
Freising	true	20	Group_1
Freising	true	89	wiki
Freising	false	20	Group_1
Freising	false	8267	Group_1
München	true	213	Prozess Manager
Timbuktu	false	89	wiki

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