Replacement by Exact Match

The *Value* field of the replacement table contains the values to be replaced. The algorithm searches for exact match of the source data with the values of this field. If such match is found, it is replaced with the value of the *Replace* field.

The algorithm logics example:

The source data value	Values of the replacement table rows		Match	New value
	"Replace" field	"Value field"		
48	12	Poor	No	Excellent
	24	Satisfactory	No	
	36	Good	No	
	48	Excellent	Yes	
	60	Perfect	No	

Data use example:

Replacement Table

Replacement	Value
12	Poor
24	Satisfactory
36	Good
48	Excellent
60	Perfect

Result of the performed replacement

Source data value	New value
12	Poor
15	15
24	Satisfactory

Source data value	New value
35	35
48	Excellent
73	73

As shown in the table of comparison of the source data with the final one, all data not included into the *Replacement table* is not replaced and it is shown in the source form. The values not included into the *Replacement table* are processed according to the specified *Precision* and Replace other parameter.

Use of the Allowable Interval

It is possible to specify the allowable search interval when searching for real and integer data. *Precision* parameter is required for its configuration. Intervals are calculated as follows: `from <Replace field value>-<Precision> to <Replace field value>+<Precision>`. If several matches are found taking into account the interval, the closest match to the source one will be used.

The algorithm logics example with interval use:

The source data value	Values of the replacement table rows		Allowable interval	Match interval	Match	The closest to source	New value
	"Replace" field	"Value field"					
50	12	Poor	20	from -8 to 32	No	No	Excellent
	24	Satisfactory		from 4 to 44	No	No	
	36	Good		from 16 to 56	Yes	No	
	48	Excellent		from 28 to 68	Yes	Yes	
	60	Perfect		from 40 to 80	Yes	No	

Data use example:

Replacement Table

Replacement	Value
12	Poor
24	Satisfactory
36	Good
48	Excellent
60	Perfect

Precision is equal to `12` .

Result of the performed replacement

Source data value	New value
12	Poor
15	Poor
24	Satisfactory
35	Good
48	Excellent
73	73

The values included neither into the *Replacement table*, nor into *Allowable intervals*, are processed according to the configured parameter - Replace other.