

# Operands

## Admissible operands in expressions

The following types of operands may be used in expressions, that determine the value of object of [Eval tag](#) type, when configuring an object of [Event](#) type:

Operand type	Operand syntax
Object name	<p>Object name including prefix and suffix.</p> <p><i>Example:</i></p> <pre>M.POUT1; P.Speed; U.Transporter1Start</pre>
Numeric constant	<p>Integer or real constants. Real constants must contain the decimal point.</p> <p><i>Example:</i></p> <pre>29; 5.25</pre>
<a href="#">System symbolic constant</a>	<p>The symbol "@" is placed before their names in expressions.</p> <p><i>Example:</i></p> <pre>@TRUE; @Crash</pre>
<a href="#">Object value attribute</a>	<p>They are shown behind the object name, separated from the name by the back slash "\".</p> <p><i>Example:</i></p> <pre>P.PRESSURE02\TIM; M.POUT\FLA</pre>
<a href="#">Function</a>	<p>Function syntax is as follows: %NAME(arg1,arg2...argN),</p> <ul style="list-style-type: none"><li>• NAME - function name</li><li>• arg1...argN - function arguments. Function arguments may be object names, functions, logical or arithmetical expressions.</li></ul> <p><i>Example:</i></p> <pre>%SQRT(X2); %MAXR(T1,T2,T3)</pre>
Value array item	<p>ArrayName[index]</p> <ul style="list-style-type: none"><li>• <b>index</b> – integer number or expression of Integer type</li></ul>
Structure item determined by serial column number	<p>Structure[index expression]^_columnIndex</p> <ul style="list-style-type: none"><li>• Structure - object of <i>Structured variable</i> type or <i>local variable</i> of <i>Record</i> type in ESL</li><li>• index expression - arbitrary expression, acquiring values of <i>Integer</i> type &gt; 0</li><li>• _columnIndex - local variable of <i>Integer</i> type, that defines the serial number of the column by means of its value (1 ..)</li></ul> <p>The method for definition of a column is allowed just in ESL.</p> <p><i>Example:</i></p> <pre>INT _colIdx _colIdx := 2 SV.Persons[1]^_colIdx:=7</pre>

Structure item determined by column name

Object[index expression]^ItemName

- Object - its value must be *Structure* type
- index expression - arbitrary expression, that gains a value of Integer type > 0
- ItemName - name of the given item

*Example:*

```
SV.Persons[2]^Name
```



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[Expression for the object value calculation](#)