

Operands

Admissible operands in expressions

The following types of operands may be used in expressions, that determine the value of the 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.TOut1; 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>
System symbolic constant	<p>The symbol "@" is placed before their names in expressions.</p> <p><i>Example:</i></p> <pre>@TRUE; @Crash</pre>
Object value attribute	<p>They are shown behind the object name, separated from the name by the backslash "\".</p> <p><i>Example:</i></p> <pre>P.PRESSURE02\TIM; M.POUT\FLA</pre>
Function	<p>Function syntax is as follows: %NAME(arg1,arg2...argN),</p> <ul style="list-style-type: none">NAME - function namearg1...argN - function arguments. Function arguments may be object names, functions, logical or arithmetical expressions. <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">index – integer number or expression of Integer type

Structure item determined by serial column number	<p>Structure[index expression]^_columnIndex</p> <ul style="list-style-type: none">• Structure - an object of <i>Structured variable</i> type or local variable of <i>Record</i> type in ESL• index expression - arbitrary expression, acquiring values of <i>Integer</i> type > 0• _columnIndex - local variable of <i>Integer</i> type, that defines the serial number of the column by means of its value (1 ..) <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	<p>Object[index expression]^ItemName</p> <ul style="list-style-type: none">• Object - its value must be <i>Structure</i> type• index expression - arbitrary expression, that gains a value of <i>Integer</i> type > 0• ItemName - the name of the given item <p><i>Example:</i></p> <pre>SV.Persons[2]^Name</pre>



Related pages:

[Implemented functions](#)

[Operators in expressions](#)

[Expression for the object value calculation](#)