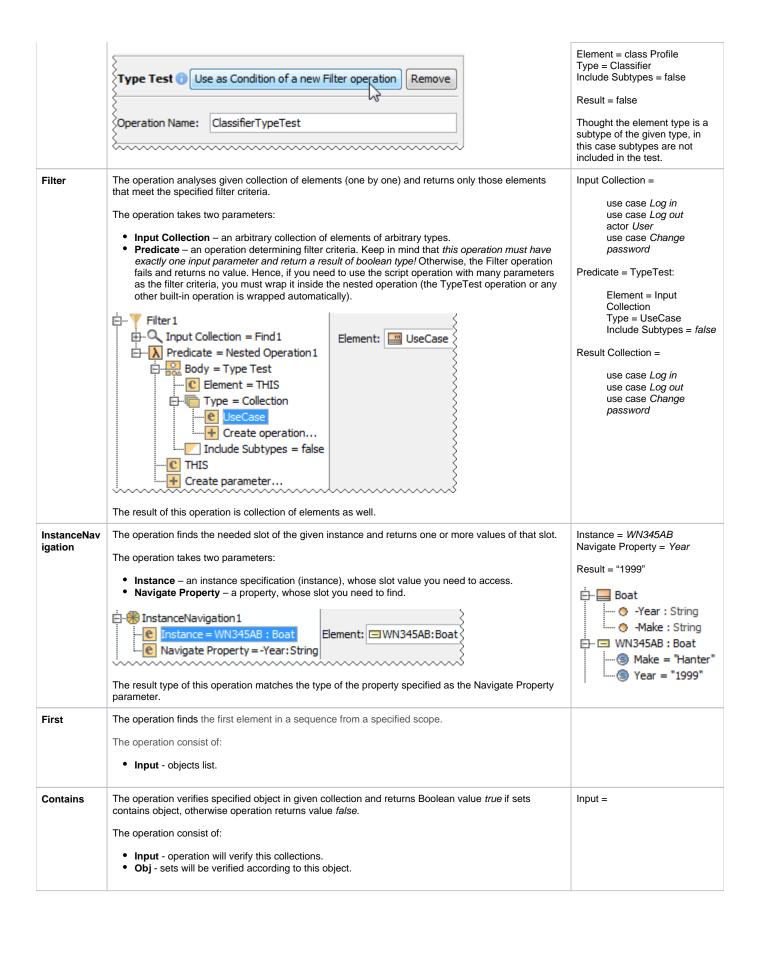
Built-in operations

Operation name	Description	Example
	Date	'
Гimestamp	The operation returns current system time in milliseconds as a string type value. It takes no parameters.	Result = "1392798008000"
FormatDate	The operation converts a date and time given in milliseconds to a human readable format. The operation takes two parameters: • Date – a date and time in milliseconds that should be converted to a human readable format. It must be a string type value and can be the result of a Timestamp operation. • Format – a date and time format for the conversion. It must be a string type value. For the date and time formats, refer to the SimpleDateFormat page. The FormatDate1 The result of this operation is a string type value. The result of this operation is a string type value.	Date = "1392798008000" Format = "yyyy.MM.dd G 'at' HH:mm:ss z" Result = "2014.02.19 AD at 10:20:08 EET"
ParseDate	The operation converts a date and time in a human readable format to milliseconds. In other words, the operation reverses the result of the FormatDate operation (it returns the value that can be the Date parameter for a FormatDate operation). The operation takes two parameters: • Format – a current format of the date and time that should be converted to milliseconds. It must be a string type value. • Formatted Date – a date and time that should be converted to milliseconds. It must be a string type value. • ParseDate1 Value: 2014.02.19 AD at 10:20:08 EET The result of this operation is a string type value.	Format = "yyyy.MM.dd G 'at' HH:mm:ss z" Formatted Date = "2014.02.19 AD at 10:20:08 EET" Result = "1392798008000"
	Collection	
TypeTest	The operation tests, whether the type of an element matches a given type or stereotype. If the types matches, it returns <i>true</i> , and if they not – <i>false</i> . You can also use this operation to check, if an element is an instance of a given classifier. The operation takes three parameters: • Element – a model element, whose type you need to test. • Type – a type, stereotype, or classifier for testing the element. • Include Subtypes – <i>true</i> , if the inherited types, stereotypes, or classifiers of the selected Type parameter value should be included in the test; <i>false</i> , if not. Element = Profile TypeTest1 Element: Profile TypeTest operation can be used in the Filter operation as the condition. For this, click the Use as Condition of a new Filter operation button on the Type Test operation specification panel.	Element = class Profile Type = Class Include Subtypes = false Result = true The element type matches the given type. Element = class Profile Type = Classifier Include Subtypes = true Result = true Though the element type doe not match the given type, it is its subtype, and in this case subtypes are included in the test.



	The operation determine whether collection is empty, if it is empty, operation returns Boolean value <i>true</i> , otherwise operation returns value <i>false</i> .	
	The operation consist of:	
	• Input - specified object (for example array, set, list).	
Size	The operation returns the number of elements in collection.	
	The operation consist of:	
	• Input - an object or collection (for example array, set, list, string).	
Intersect	The operation returns the data common to both collections, with no repetitions and in sorted order.	C1 = [7 0 5], C2 = [7 1 5],
	The operation consist of:	returns C = [5 7];
	• Collection1 and Collection2 - collections which will be intersected.	
Concat	The operation joins two lists. The List1 and List2 are joined end-to-end. Keeps the order, allows duplicates.	
	The operation consist of:	
	List1 and List2 - lists which will be concatenated.	
Get	The operation returns the element at the specified position in collection.	
	The operation consist of:	
	 Input - specified collection. Index - index of the element to return (integer type). 	
Мар	The operation maps objects from collection to collection of other objects and returns a collection of results in the same order.	Input = [1 2 3 4 5],
	The operation consist of:	applies operation map with function (Input + 1)
	 Input - collections with objects to map. MapOperation - given function, this function will be applied to each input element. 	returns = [2 3 4 5 6]
MapFlat	The operation maps objects from collection to collection of other objects. Flattens mapping result if it is a collection.	Input = { {1,2}, {3,4}, {5,6} }
	The operation consist of:	applies operation MapFlat
	 Input - collections with objects to map. MapOperation - given function, this function will be applied to each input element. 	returns = {1,2,3,4,5,6}
Reduce	The operation reduce collection using given operation.	
	The operation consist of:	
	 Input - collection that will be reduced. ReduceOperation - given function, this function determines how collection will be reduced. 	
Zip	The operation zips two collections using given zip operation.	
	The operation consist of:	
	 Collection1 and Collection2 - to these collections, zip operation will be applied. ZipOperation - given function, according to this function, collections will be zipped. 	
Min	The operation returns minimum value from given collection.	
	The operation consist of:	
	Input - collection which will be tested and minimum value determined.	

Max	The operation returns maximum value from given collection.				
	The operation consist of:				
	Input - collection which will be tested and maximum value determined.				
AllMatch	The operation checks if all collection elements match given predicate and returns boolean value.				
	The operation consist of:				
	 Input - specified collection. Predicate - a predicate is applied to each element of collection. 				
AnyMatch	The operation checks if all collection elements match given predicate and returns boolean value.				
	The operation consist of:				
	 Input - specified collection. Predicate - a predicate is applied to each element of collection. 				
	Logical				
And	The logical conjunction operation returns Boolean value <i>true</i> if all parameters are <i>true</i> , in all other cases - operation returns <i>false</i> value.				
	The operation by default takes three parameters:				
	 A and B - two logical values. Result - a Boolean value which shows results of logical conjunction 				
Or	The logical disjunction operation returns Boolean value <i>true</i> if either or both parameters is <i>true</i> , otherwise operation returns <i>false</i> value.				
	The operation takes these parameters:				
	A and B - two logical values.				
Xor	The logical exclusive disjunction operation returns Boolean value <i>true</i> if both parameters differ, otherwise operation returns <i>false</i> value.				
	The operation takes these parameters:				
	A and B - two logical values.				
Not	The logical negation operation returns Boolean value <i>true</i> if parameter have value <i>false</i> , and <i>false</i> whe n parameter have value <i>true</i> .				
	The operation takes one parameter:				
	• A - logical value.				
	Comparison				
IfThenElse	The operation returns one or other object depending on condition.				
	The operation consist of:				
	 Condition - defines the operation that determines which value to assign. Then - expression defines the value to assign if condition is true. Else - expression defines the value to assign if condition is false. 				
LessThan	The operation returns <i>true</i> if the left parameter is less than the right parameter (A < B).				
	The operation consist of:				
	A and B - parameters which will be compared.				

LessThanOr Equals	The operation returns <i>true</i> if the left side parameter is less than or equal to the right parameter (A <= B).			
	The operation consist of:			
	A and B - parameters which will be compared.			
GreaterThan	The operation returns <i>true</i> if the left parameter is greater than the right parameter (A > B).			
	The operation consist of:			
	A and B - parameters which will be compared			
GreaterThan OrEquals	The operation returns <i>true</i> if the left parameter is greater than or equal to the right parameter (A >= B).			
OrEquals	The operation consist of:			
	A and B - parameters which will be compared			
Equals	The operation converts parameters if they are not the same type, then compares them. If parameters are equal, operation returns Boolean value <i>true</i> , otherwise operation returns <i>false</i> .			
	The operation consist of:			
	A and B - parameters which will be compared			
NotEquals	The operation converts parameters if they are not the same type, then compares them. If parameters are not equal, operation returns Boolean value true, otherwise operation returns false.			
	The operation consist of:			
	A and B - parameters which will be compared			
	String			
StringConcat	The operation joins two parameters with string values. A and B string values are joined end-to-end.	A = Hello		
	The operation consist of:	B = world!		
	A and B - two string values.	Return = Hello world!		
StringConta ins	The operation returns Boolean value true, if specified string value is find in specified scope, otherwise.	A = 0		
IIIS	The operation consist of:	B = world!		
	 A - according to this string, operation will verify B B - string value. 	Return = <i>True</i>		
Other				
DiagramTyp eTest	The operation returns Boolean value true if project uses specified diagram, otherwise returns value false.	Diagram =		
	The operation consist of:	Use Case Diagram Class Diagram Free Form Diagram		
	 Diagram - all diagrams in the specified scope. Type - write diagram name exactly how it is named in modeling tool. 	Type = Class Diagram		
	,	Return = <i>True</i>		

UsageInDia gramsWithS ymbols

The operation returns a collection of Diagram elements where a provided element is used in.

Searches for usages in diagrams with symbols only. Other diagrams such as Generic Tables, Dependency Matrices, Relationship Maps, etc., are not searched in. This operation performs fast and does not load any diagrams to get the information.

The operation consists of:

- element the element to search for
- predicate a predicate to filter diagrams by a custom condition. A Nested Operation must be
 the root operator for a predicate. Then, any other operation can be used inside the Nested
 Operation.

Deprecated

UsageInDia grams (deprecated)

Deprecated, use with caution.

This operation is very expensive. It not only checks symbol diagrams for elements but also loads and builds generic tables, dependency matrices, relationship maps, etc. It should be best avoided and used only if you understand the possible consequence of building all diagrams in the project.

Searches for usages only in all diagrams.

The operation consists of:

• element - the element to search for