

## Mapping the OCL standard library to fUML

Context	OCL operation	Generated fUML
OclType	allInstances	ReadExtentAction
OclAny	=	TestIdentityAction
	<>	TestIdentityAction CallBehaviorAction(fUML::Not)
	oclIsKindOf	ReadIsClassifiedObjectAction
Boolean	and	CallBehaviorAction(fUML::And )
	or	CallBehaviorAction(fUML::Or)
	xor	CallBehaviorAction(fUML::Xor)
	not	CallBehaviorAction(fUML::Not)
	implies	CallBehaviorAction(fUML::Implies)
	toBoolean	CallBehaviorAction(fUML::toBoolean)
String	toString	CallBehaviorAction(fUML::toString)
	concat	CallBehaviorAction(fUML::concat)
	size	CallBehaviorAction(fUML::size)
Integer, Real	substring	CallBehaviorAction(fUML::substring)
	<	CallBehaviorAction(fUML::<)
	>	CallBehaviorAction(fUML::>)
	<=	CallBehaviorAction(fUML::<=)
	>=	CallBehaviorAction(fUML::>=)
	+	CallBehaviorAction(fUML::+)
	-	CallBehaviorAction(fUML::-)
	*	CallBehaviorAction(fUML::*)
	/	CallBehaviorAction(fUML::/)
	max	CallBehaviorAction(fUML::max)
	min	CallBehaviorAction(fUML::min)
	abs	CallBehaviorAction(fUML::abs)
	toString	CallBehaviorAction(fUML::toString)
Collection	size	CallBehaviorAction(Alf::size)
	includes	CallBehaviorAction(Alf::includes)
	excludes	CallBehaviorAction(Alf::excludes)
	count	CallBehaviorAction(Alf::count)
	isEmpty	CallBehaviorAction(Alf::isEmpty)

	notEmpty	CallBehaviorAction(Alf::notEmpty)
	includesAll	CallBehaviorAction(Alf::includesAll)
	excludesAll	CallBehaviorAction(Alf::excludesAll)
	equals	CallBehaviorAction(Alf::equals)
	at	CallBehaviorAction(Alf::at)
	indexOf	CallBehaviorAction(Alf::indexOf)
	first	CallBehaviorAction(Alf::first)
	last	CallBehaviorAction(Alf::last)
	union	CallBehaviorAction(Alf::union)
	intersection	CallBehaviorAction(Alf::intersection)
	difference	CallBehaviorAction(Alf::difference)
	including	CallBehaviorAction(Alf::including)
	includeAt	CallBehaviorAction(Alf::includeAt)
	insertAt	CallBehaviorAction(Alf::insertAt)
	includeAllAt	CallBehaviorAction(Alf::includeAllAt)
	excluding	CallBehaviorAction(Alf::excluding)
	excludingOne	CallBehaviorAction(Alf::excludingOne)
	excludeAt	CallBehaviorAction(Alf::excludeAt)
	replacing	CallBehaviorAction(Alf::replacing)
	replacingOne	CallBehaviorAction(Alf::replacingOne)
	replacingAt	CallBehaviorAction(Alf::replacingAt)
	subsequence	CallBehaviorAction(Alf::subsequence)
	add	CallBehaviorAction(Alf::add)
	addAll	CallBehaviorAction(Alf::addAll)
	addAt	CallBehaviorAction(Alf::addAt)
	remove	CallBehaviorAction(Alf::remove)
	removeAll	CallBehaviorAction(Alf::removeAll)
	removeOne	CallBehaviorAction(Alf::removeOne)
	removeAt	CallBehaviorAction(Alf::removeAt)
	replace	CallBehaviorAction(Alf::replace)
	replaceOne	CallBehaviorAction(Alf::replaceOne)
Iterators	collect (iterator   body)	ExpansionRegion, InputExpansionNode, OutputExpansionNode, ForkNode.
	select (iterator   body)	ExpansionRegion, InputExpansionNode, OutputExpansionNode, DecisionNodes, ForkNode
	reject (iterator   body)	ExpansionRegion, InputExpansionNode,

		OutputExpansionNode, DecisionNodes, ForkNode, CallBehaviorAction(fUML::Not)
Declarative Expressions	if (Boolean) then (oclAny) else (oclAny) endif	two StructuredActivityNodes, two ControlFlows, two LiteralBooleans, DecisionNode, MergeNode, four ObjectFlows.