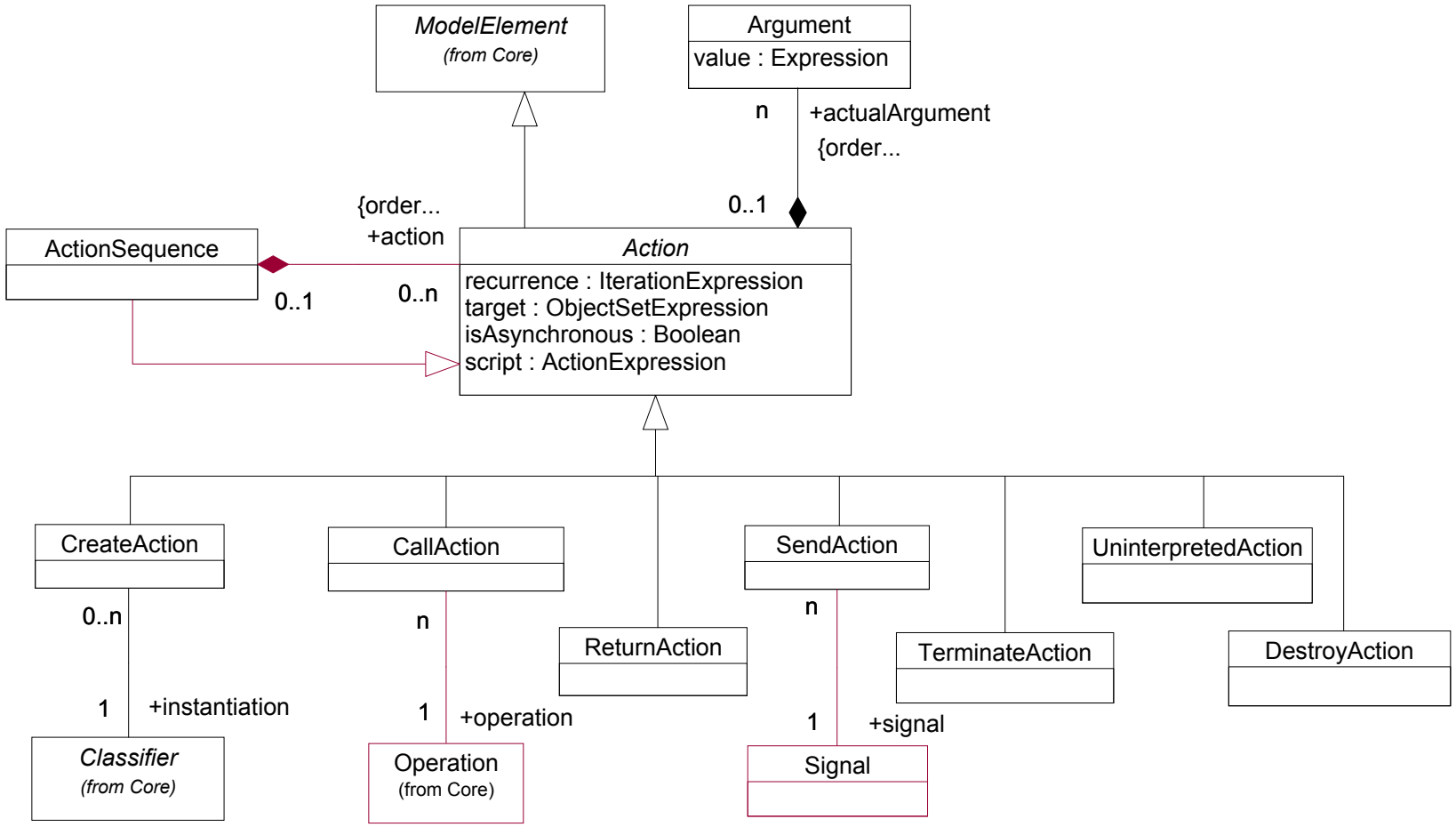
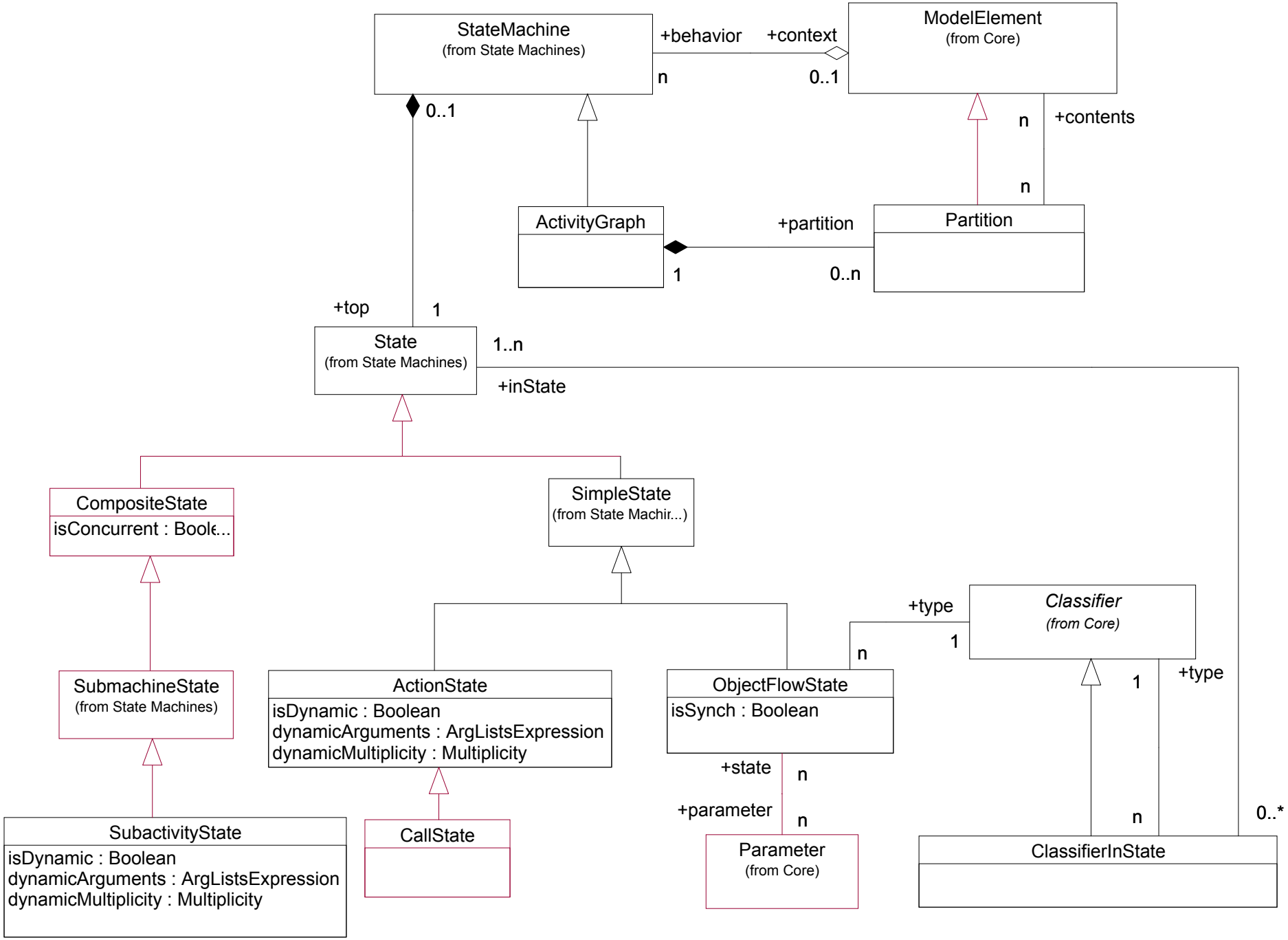
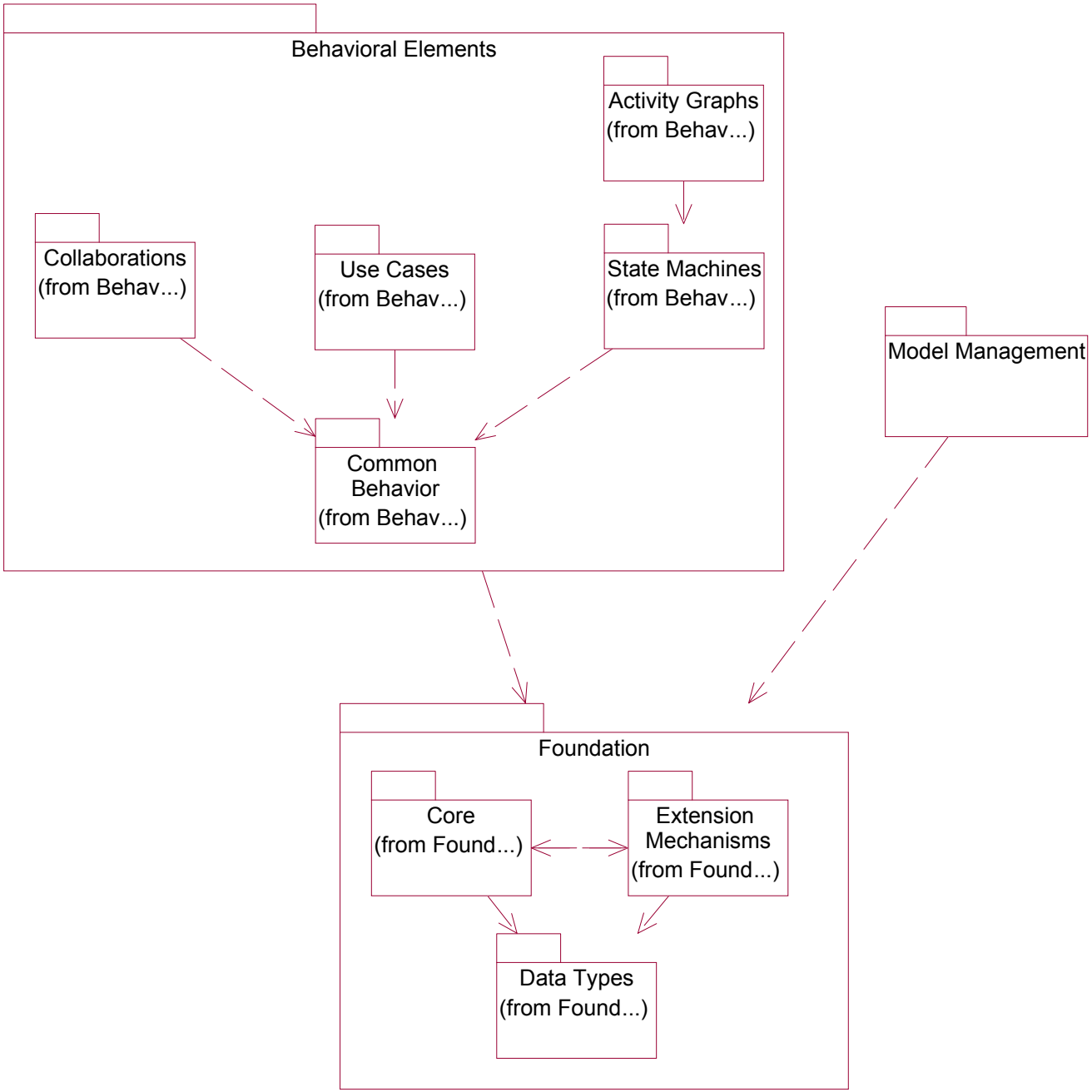
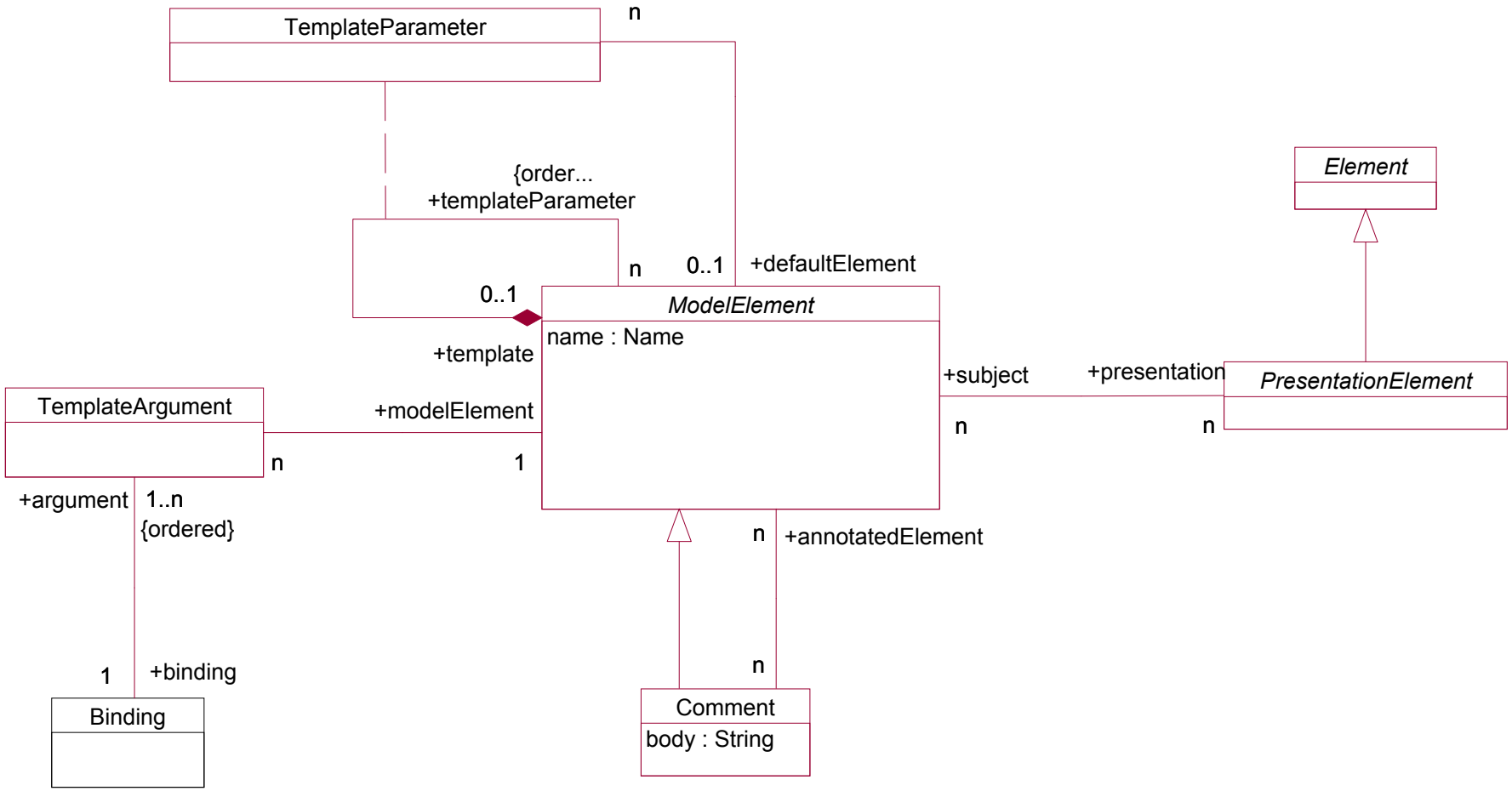
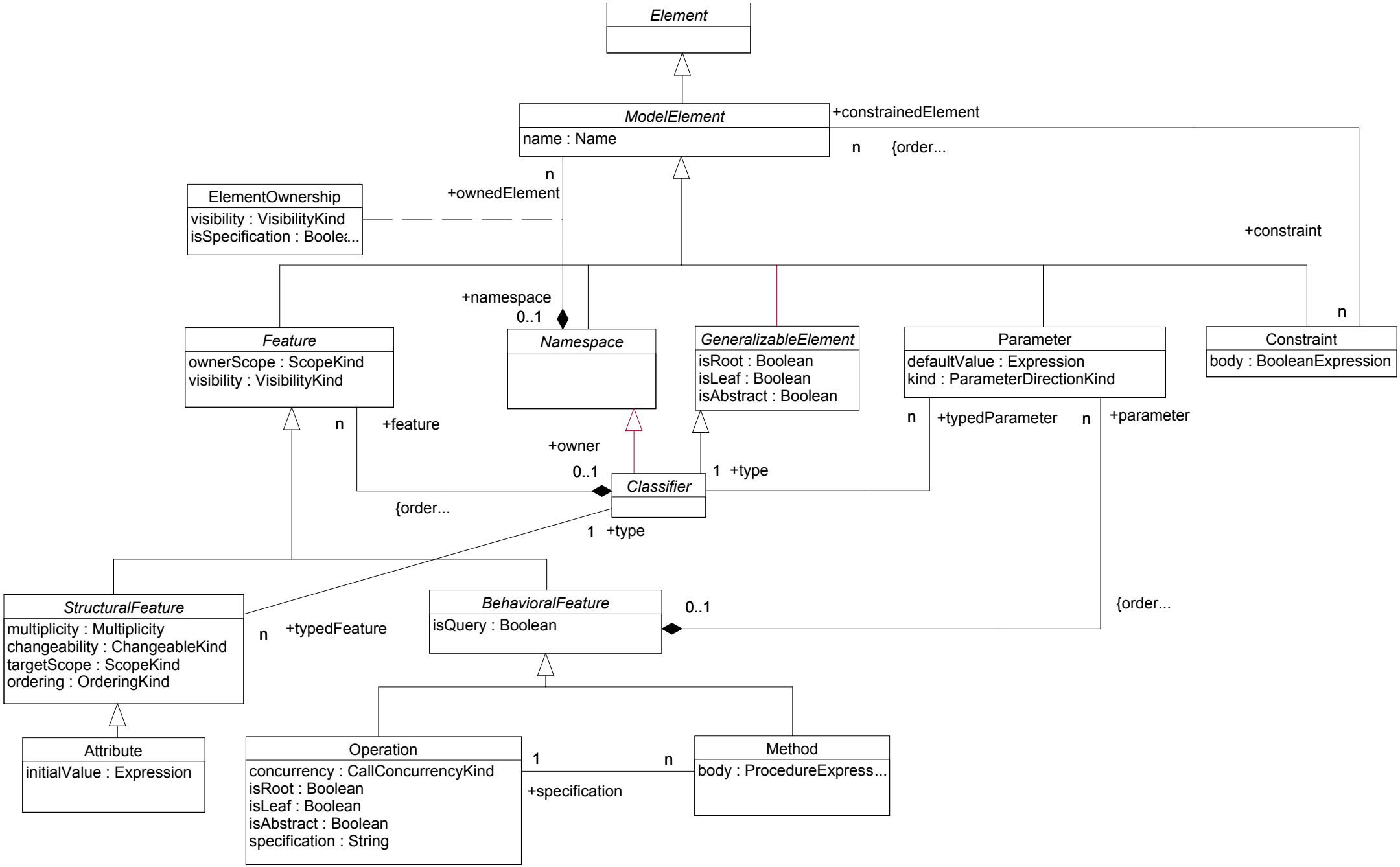
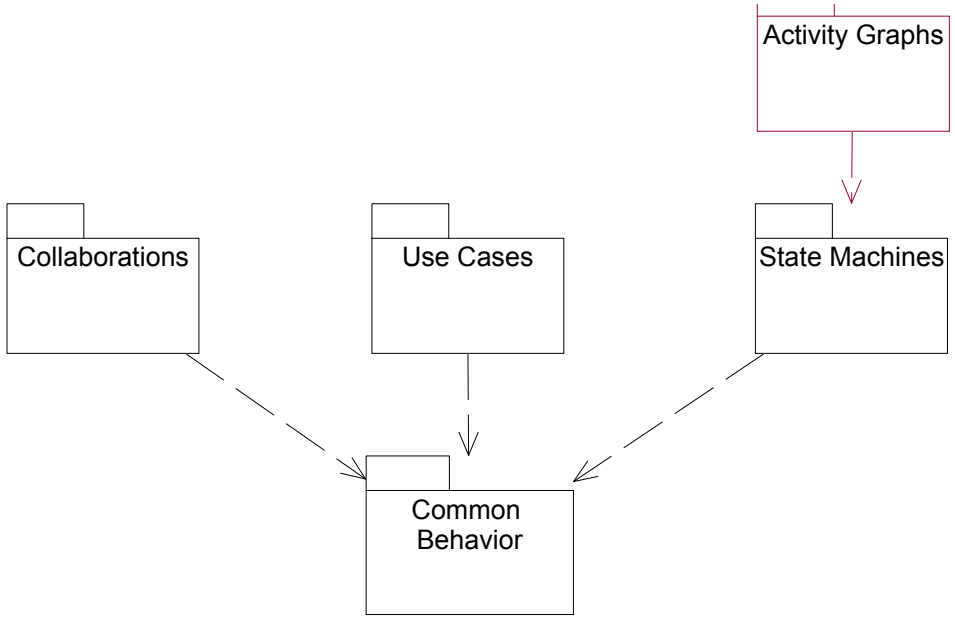

ModelElement
(from Core)
Argument
value : Expression
n
+actualArgument
{order...
0..1
{order...
+action
ActionSequence
Action
recurrence : IterationExpression
target : ObjectSetExpression
isAsynchronous : Boolean
script : ActionExpression
0..1
0..n
CreateAction
CallAction
SendAction
UninterpretedAction
0..n
n
n
ReturnAction
TerminateAction
DestroyAction
1
+instantiation
1
+operation
1
+signal
Classifier
(from Core)
Operation
(from Core)
Signal

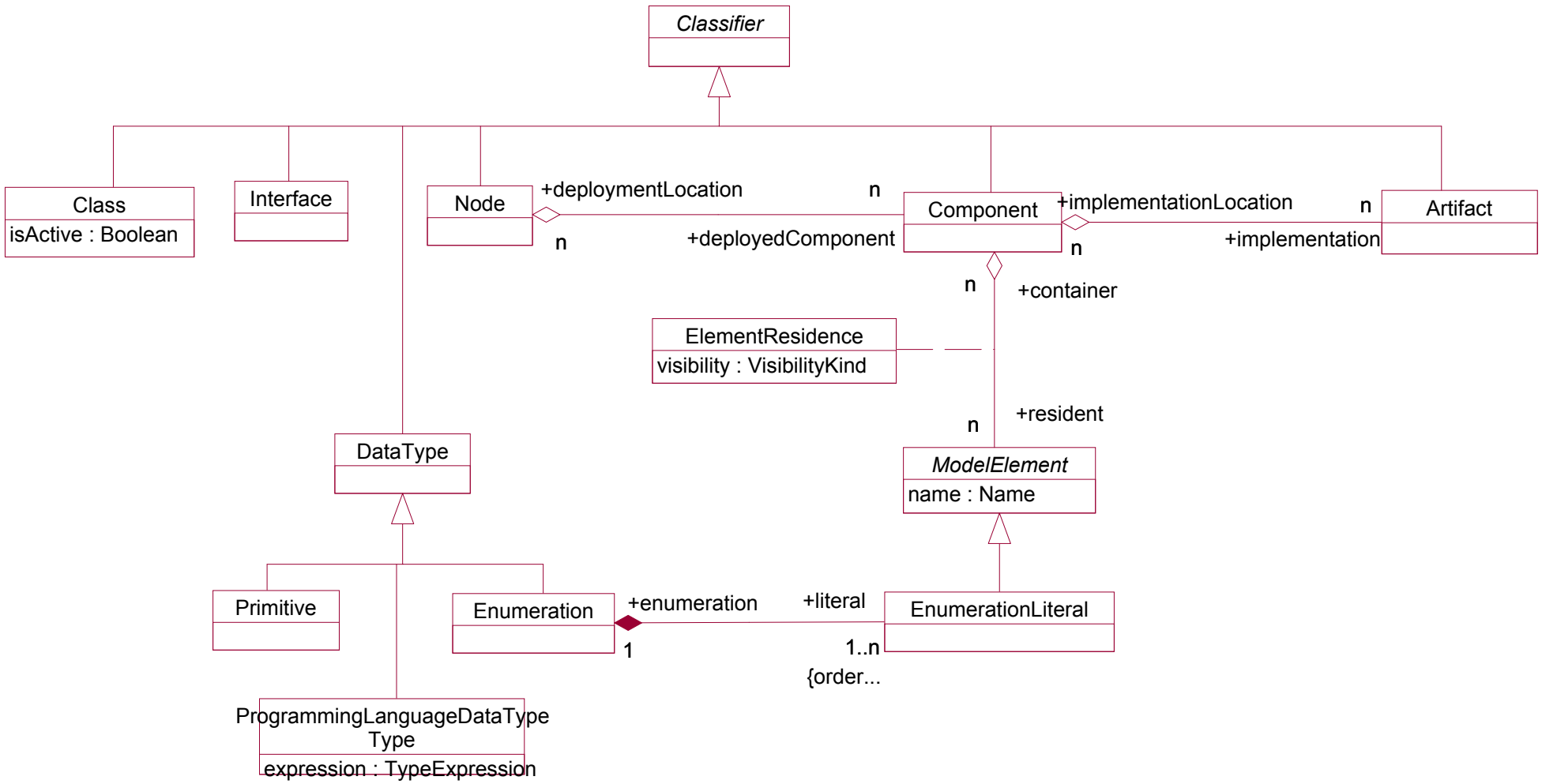

StateMachine
(from State Machines)
+behavior
+context
ModelElement
(from Core)
n
0..1
0..1
n
+contents
n
ActivityGraph
+partition
Partition
1
0..n
+top
1
State
(from State Machines)
1..n
+inState
CompositeState
isConcurrent : Boole...
SimpleState
(from State Machir...)
+type
Classifier
(from Core)
1
n
SubmachineState
(from State Machines)
ActionState
isDynamic : Boolean
dynamicArguments : ArgListsExpression
dynamicMultiplicity : Multiplicity
ObjectFlowState
isSynch : Boolean
1
+type
+state
n
+parameter
n
n
0..*
SubactivityState
isDynamic : Boolean
dynamicArguments : ArgListsExpression
dynamicMultiplicity : Multiplicity
CallState
Parameter
(from Core)
ClassifierInState

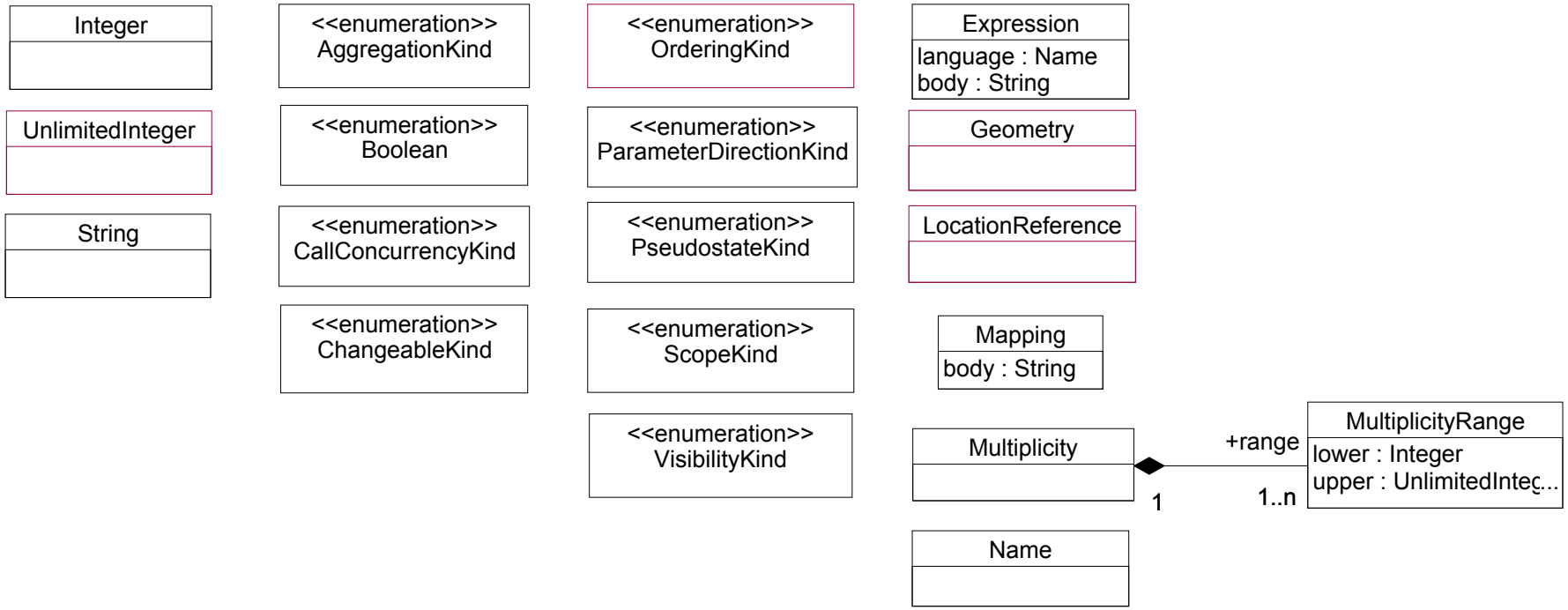

Behavioral Elements
Activity Graphs
(from Behav...)
Collaborations
(from Behav...)
Use Cases
(from Behav...)
State Machines
(from Behav...)
Common
Behavior
(from Behav...)
Model Management
Foundation
Core
(from Found...)
Extension
Mechanisms
(from Found...)
Data Types
(from Found...)

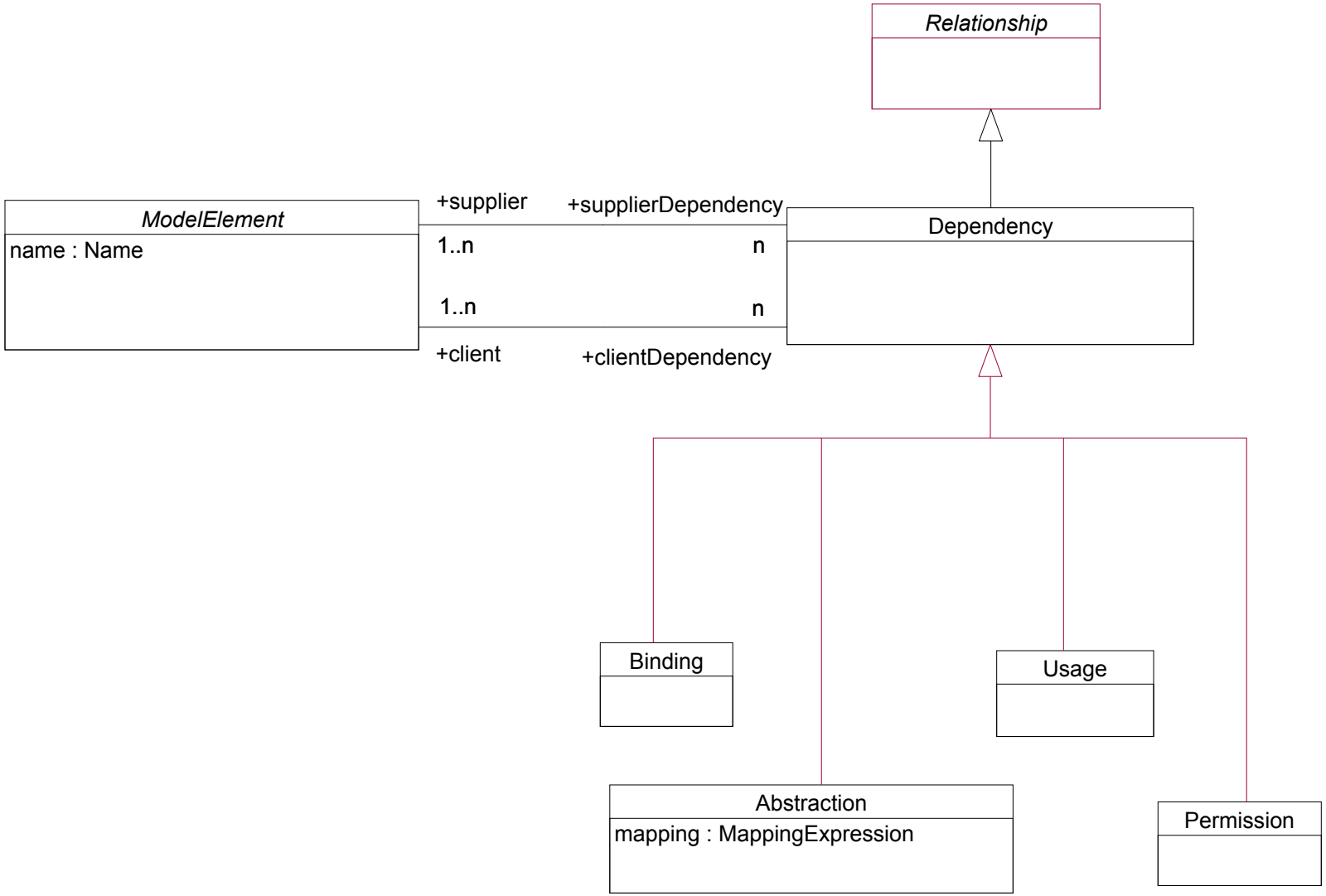

TemplateParameter
n
{order...
+templateParameter
n
0..1
+defaultElement
0..1
ModelElement
name : Name
+template
Element
+subject
+presentation
PresentationElement
TemplateArgument
+modelElement
n
n
n
1
+argument
1..n
{ordered}
n
+annotatedElement
1
+binding
n
Binding
Comment
body : String

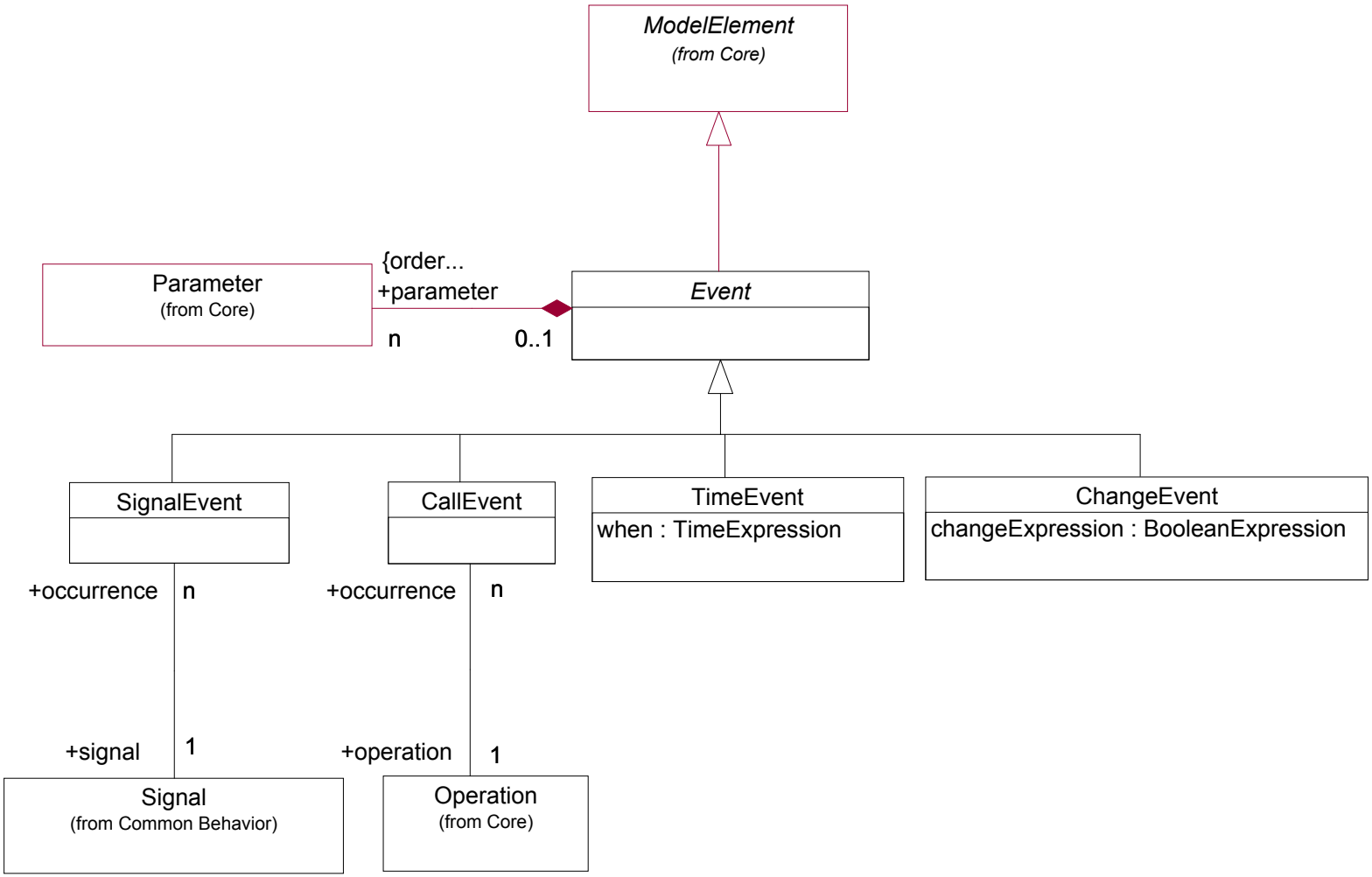

Element
ModelElement
name : Name
+constrainedElement
n
{order...
n
+ownedElement
ElementOwnership
visibility : VisibilityKind
isSpecification : Boole...
+constraint
+namespace
0..1
n
Feature
ownerScope : ScopeKind
visibility : VisibilityKind
Namespace
GeneralizableElement
isRoot : Boolean
isLeaf : Boolean
isAbstract : Boolean
Parameter
defaultValue : Expression
kind : ParameterDirectionKind
Constraint
body : BooleanExpression
n
+feature
+owner
0..1
Classifier
1
+type
n
+typedParameter
n
+parameter
{order...
1
+type
StructuralFeature
multiplicity : Multiplicity
changeability : ChangeableKind
targetScope : ScopeKind
ordering : OrderingKind
n
+typedFeature
BehavioralFeature
isQuery : Boolean
0..1
{order...
Attribute
initialValue : Expression
Operation
concurrency : CallConcurrencyKind
isRoot : Boolean
isLeaf : Boolean
isAbstract : Boolean
specification : String
1
n
+specification
Method
body : ProcedureExpress...

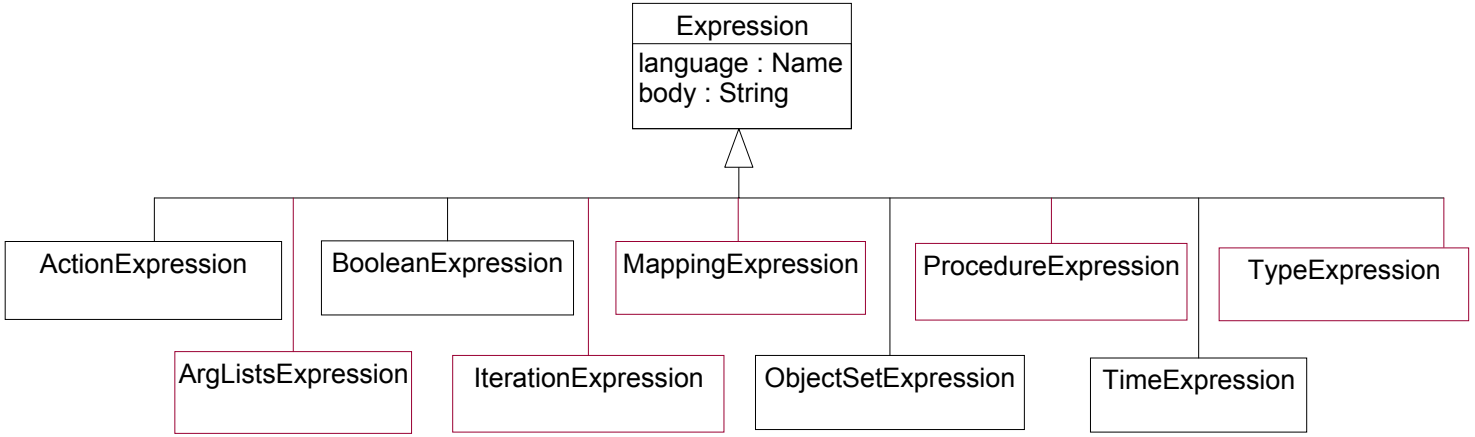

Activity Graphs
Collaborations
Use Cases
State Machines
Common
Behavior

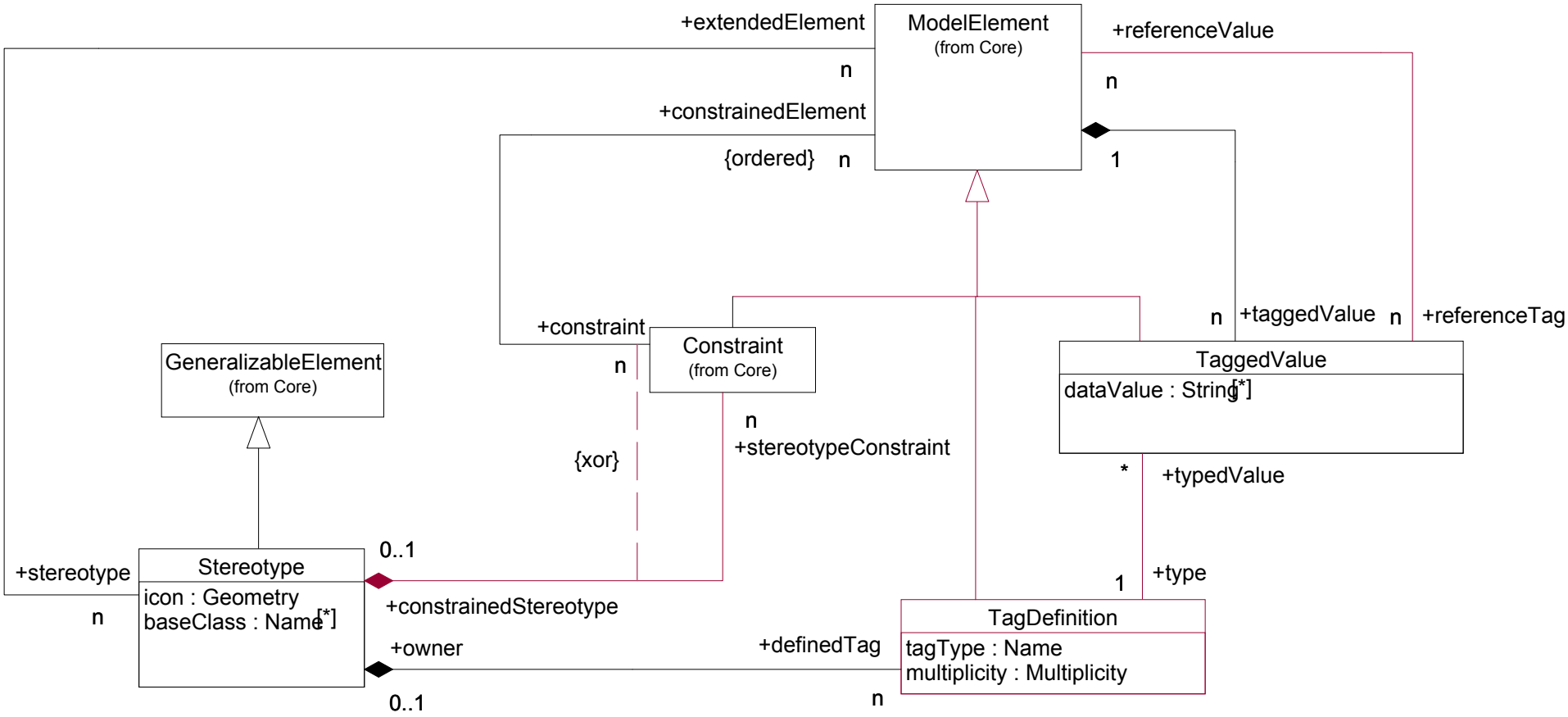

Classifier
Class
isActive : Boolean
Interface
Node
+deploymentLocation
n
n
+deployedComponent
Component
+implementationLocation
n
n
+implementation
Artifact
n
+container
ElementResidence
visibility : VisibilityKind
n
+resident
DataType
ModelElement
name : Name
Primitive
Enumeration
+enumeration
+literal
EnumerationLiteral
1
1..n
{order...
ProgrammingLanguageDataType
Type
expression : TypeExpression

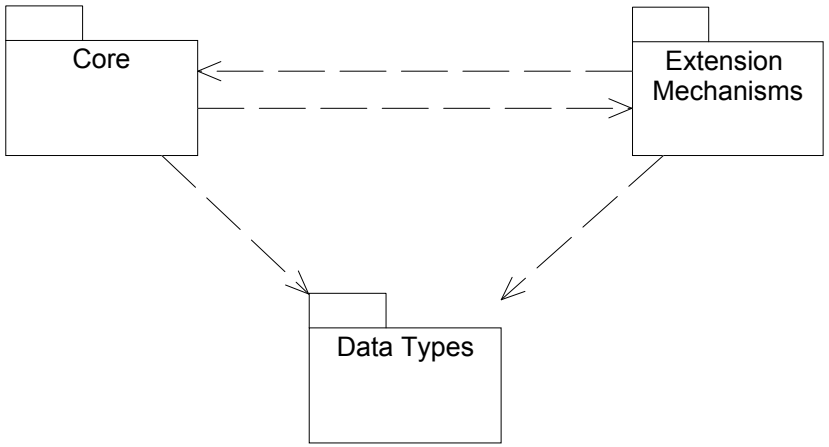

Integer
UnlimitedInteger
String
<<enumeration>>
AggregationKind
<<enumeration>>
Boolean
<<enumeration>>
CallConcurrencyKind
<<enumeration>>
ChangeableKind
<<enumeration>>
OrderingKind
<<enumeration>>
ParameterDirectionKind
<<enumeration>>
PseudostateKind
<<enumeration>>
ScopeKind
<<enumeration>>
VisibilityKind
Expression
language : Name
body : String
Geometry
LocationReference
Mapping
body : String
Multiplicity
+range
1
1..n
MultiplicityRange
lower : Integer
upper : UnlimitedInteg...
Name

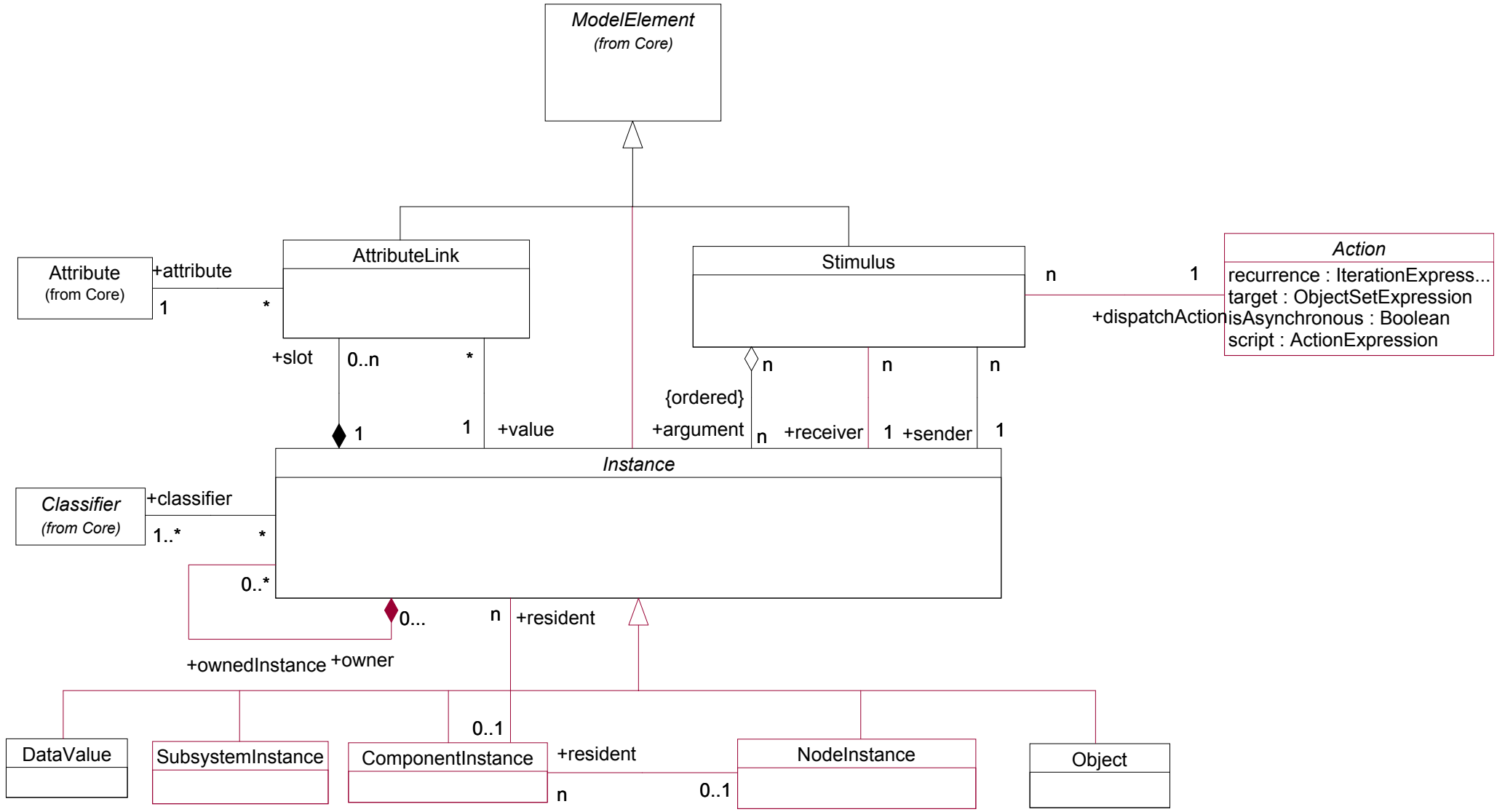

Relationship
ModelElement
name : Name
+supplier
+supplierDependency
1..n
n
1..n
n
+client
+clientDependency
Dependency
Binding
Usage
Abstraction
mapping : MappingExpression
Permission

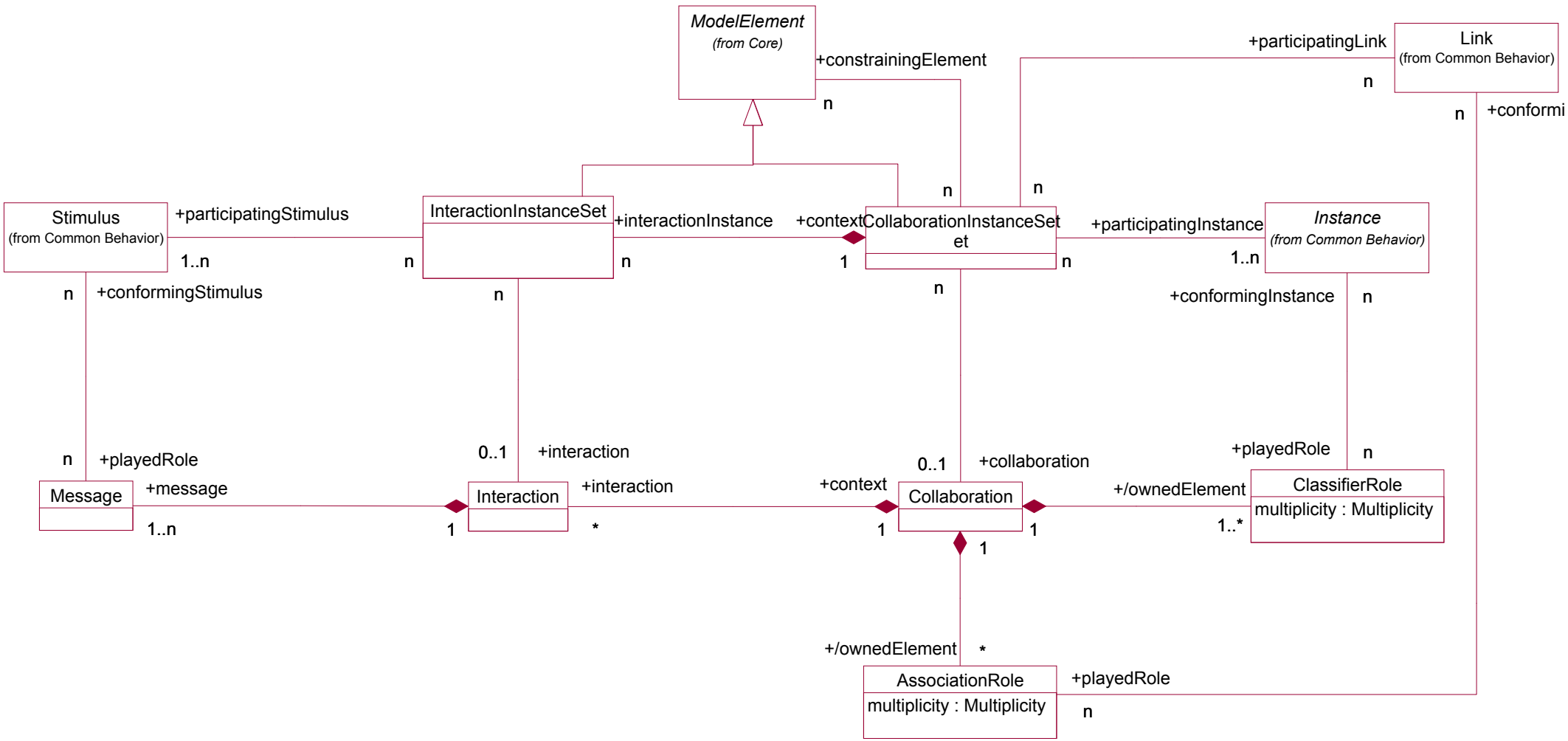

ModelElement
(from Core)
Parameter
(from Core)
{order...
+parameter
n
0..1
Event
SignalEvent
CallEvent
TimeEvent
when : TimeExpression
ChangeEvent
changeExpression : BooleanExpression
+occurrence
n
+occurrence
n
+signal
1
+operation
1
Signal
(from Common Behavior)
Operation
(from Core)

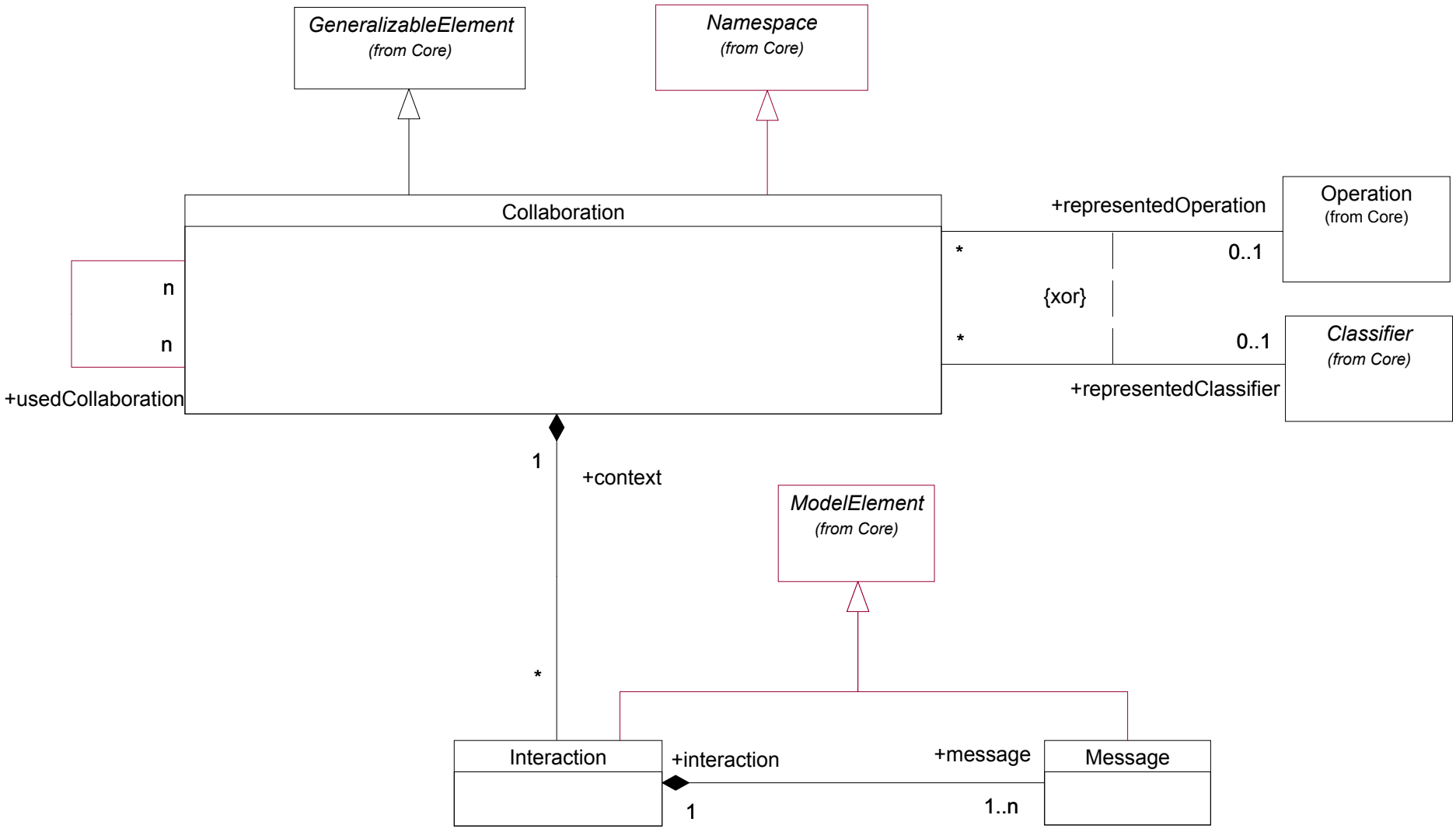

Expression
language : Name
body : String
ActionExpression
BooleanExpression
MappingExpression
ProcedureExpression
TypeExpression
ArgListsExpression
IterationExpression
ObjectSetExpression
TimeExpression

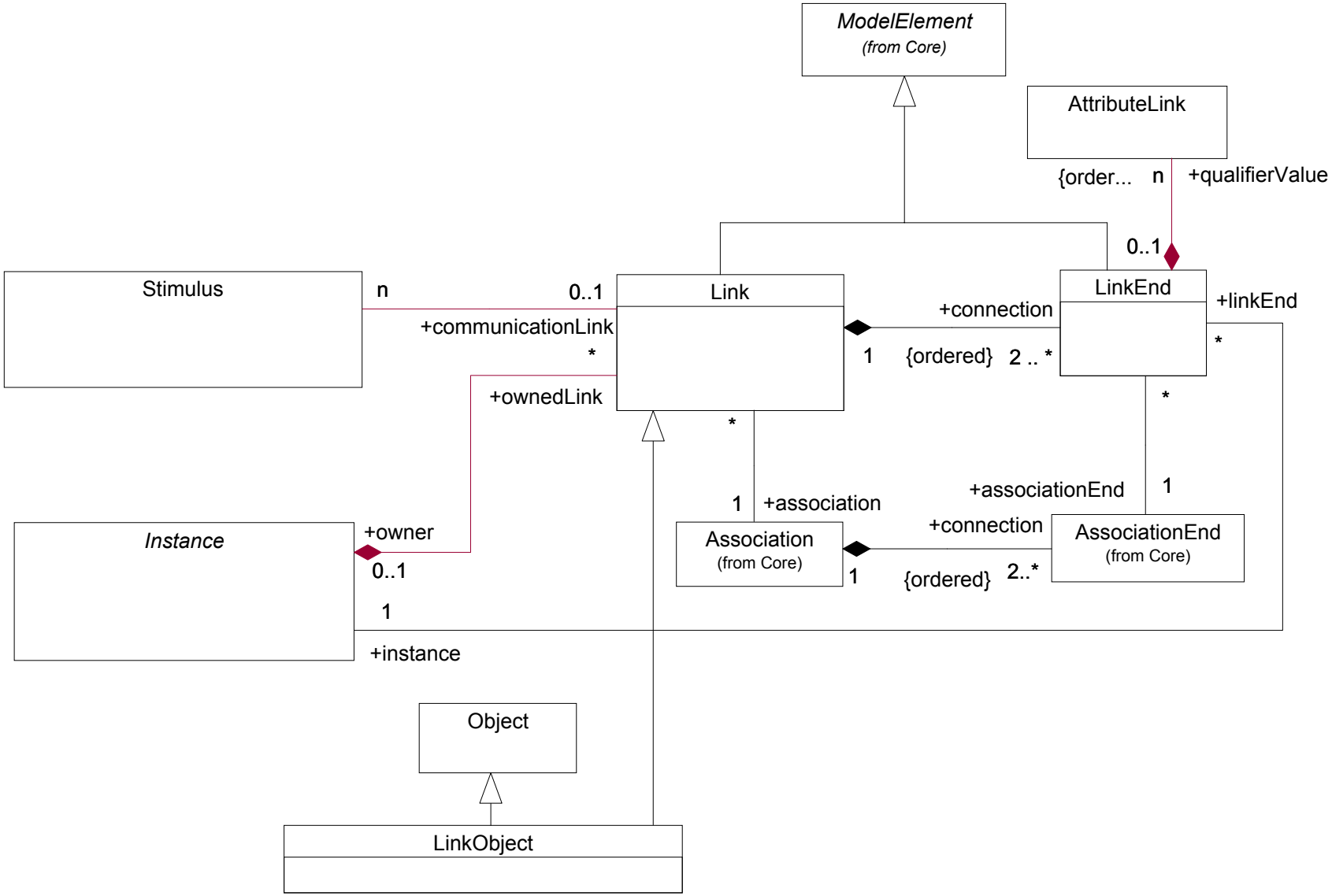

ModelElement
(from Core)
+extendedElement
n
+referenceValue
n
+constrainedElement
{ordered}
n
1
+constraint
n
Constraint
(from Core)
n
+taggedValue
n
+referenceTag
TaggedValue
dataValue : String[*]
GeneralizableElement
(from Core)
n
+stereotypeConstraint
{xor}
*
+typedValue
0..1
+stereotype
Stereotype
icon : Geometry
baseClass : Name[*]
n
+constrainedStereotype
1
+type
TagDefinition
tagType : Name
multiplicity : Multiplicity
+owner
+definedTag
0..1
n

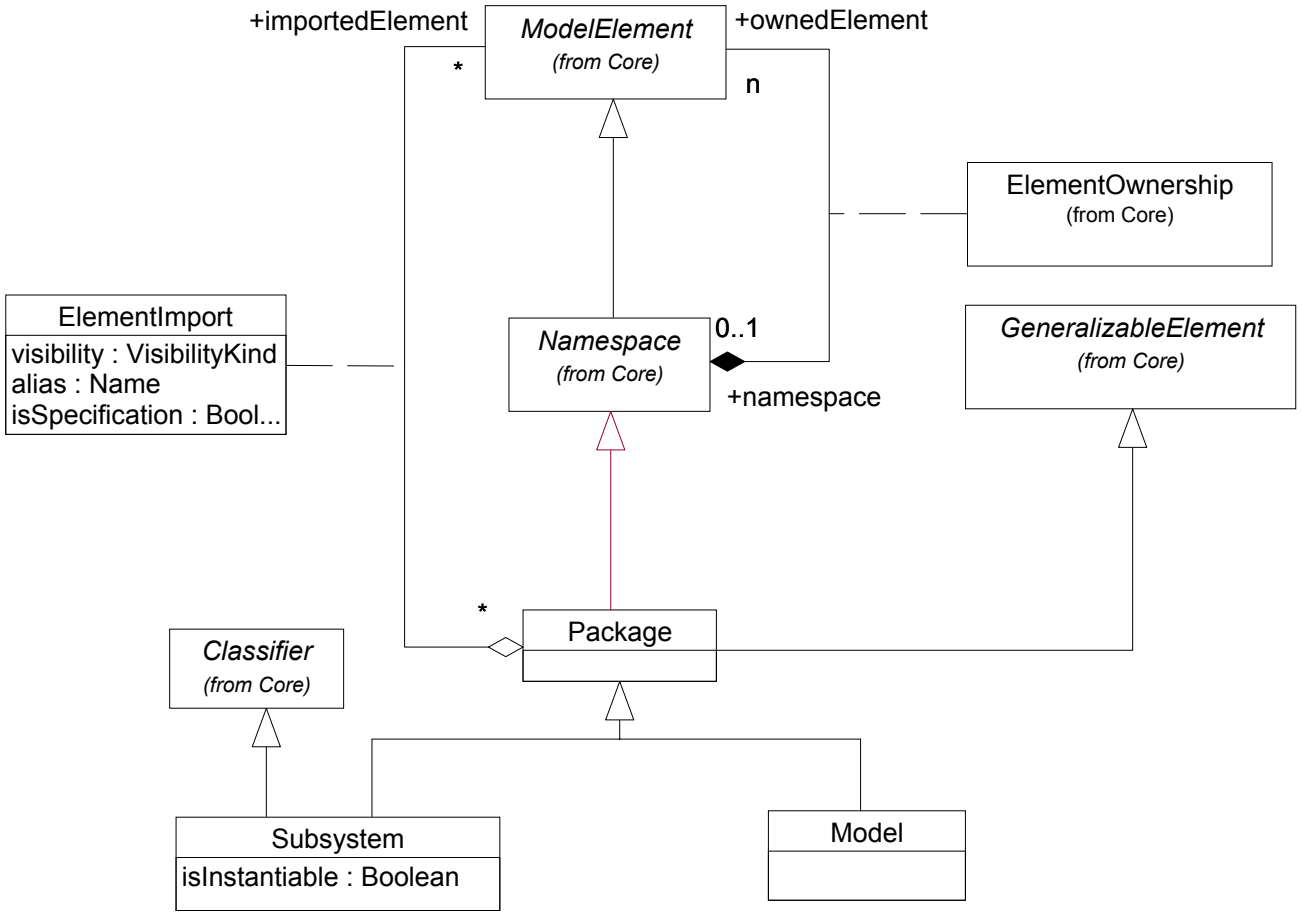

Core
Extension Mechanisms
Data Types

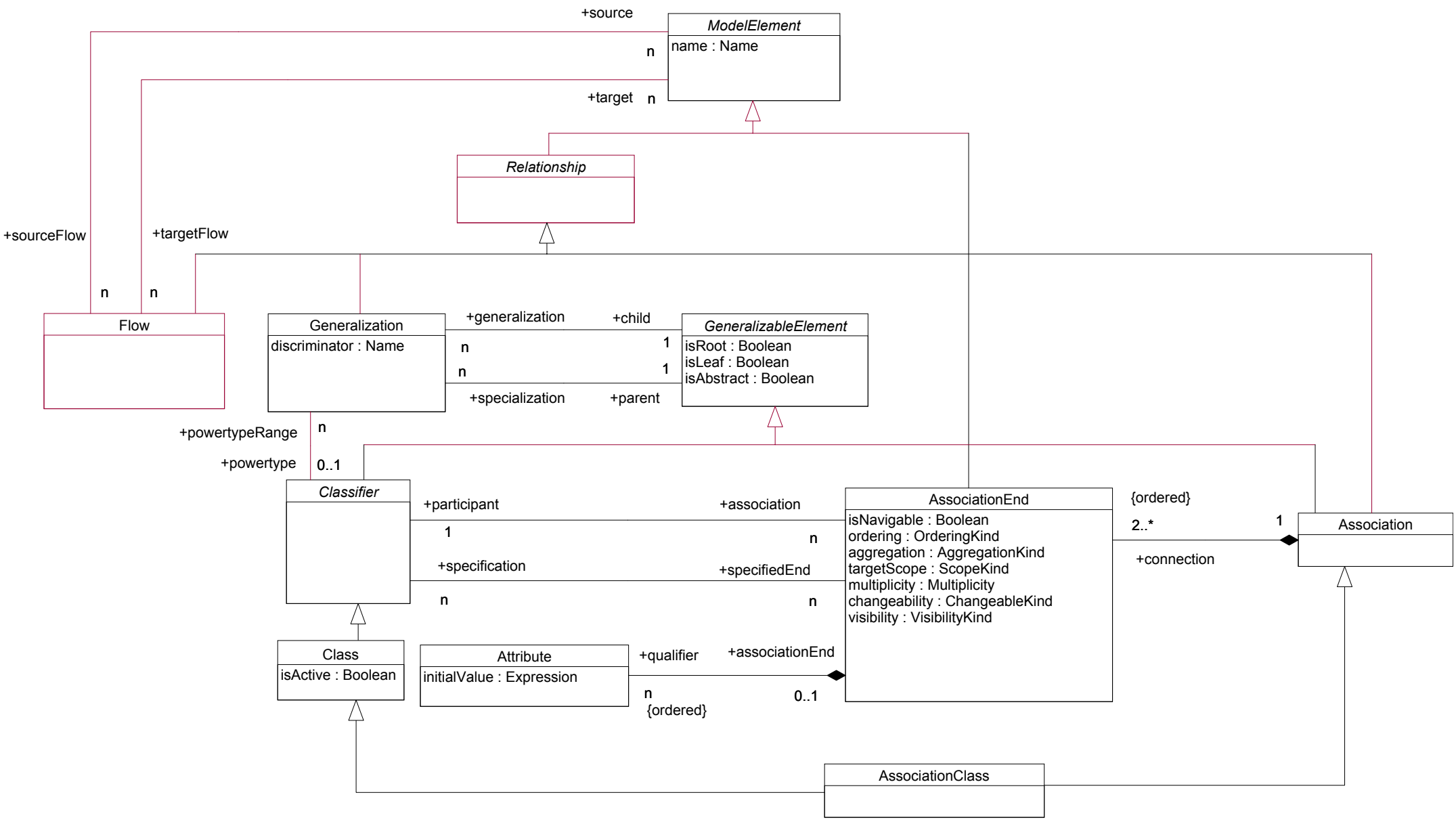

ModelElement
(from Core)
AttributeLink
Stimulus
Action
recurrence : IterationExpress...
target : ObjectSetExpression
isAsynchronous : Boolean
script : ActionExpression
Attribute
(from Core)
+attribute
1
*
+slot
0..n
*
1
1
+value
n
1
+dispatchAction
n
n
n
{ordered}
+argument
n
+receiver
1
+sender
1
Instance
Classifier
(from Core)
+classifier
1..*
*
0..*
0...
n
+resident
+ownedInstance
+owner
DataValue
SubsystemInstance
ComponentInstance
0..1
+resident
n
0..1
NodeInstance
Object

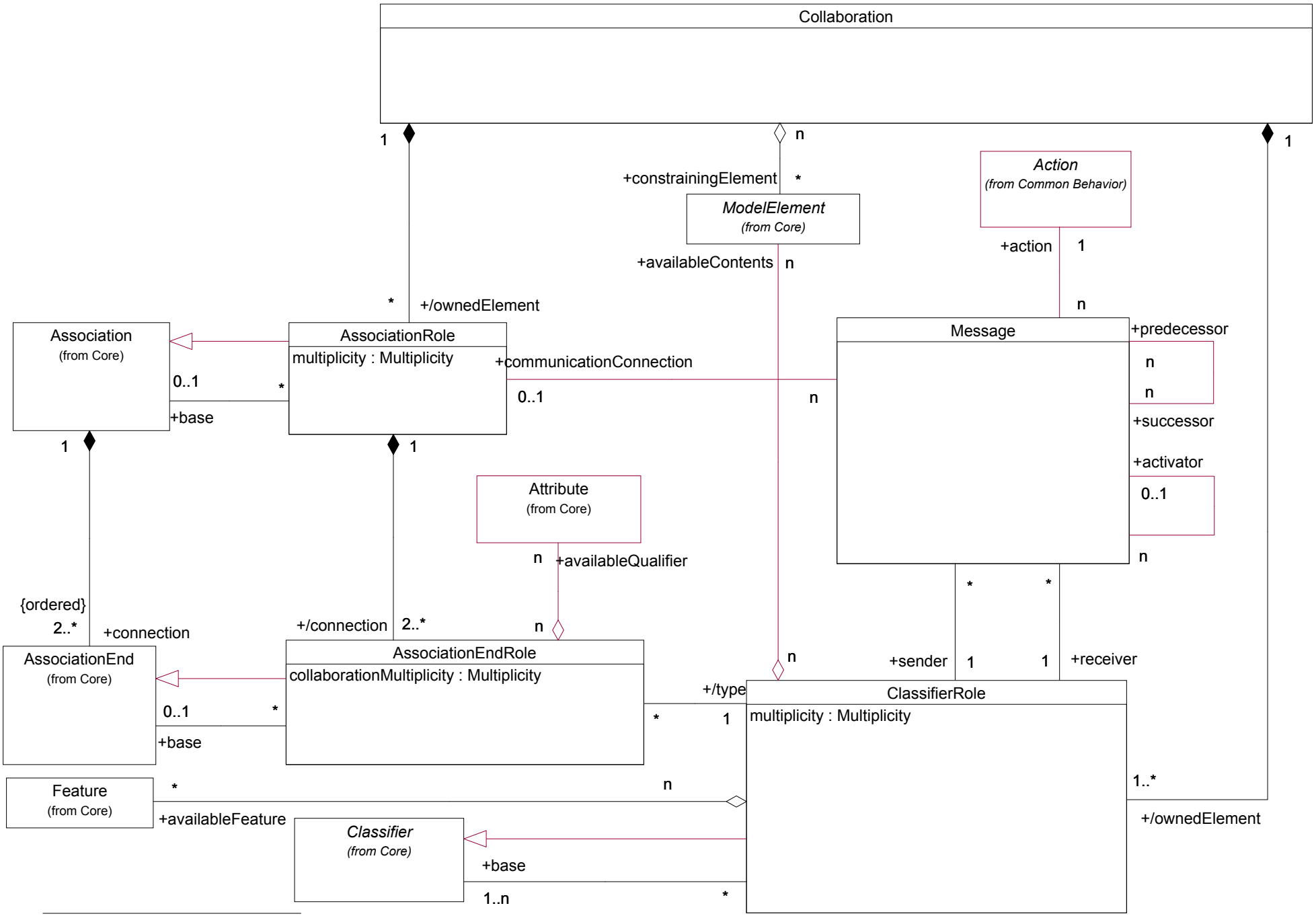

ModelElement
(from Core)
+constrainingElement
n
n
+participatingLink
Link
(from Common Behavior)
n
n
+conformi
Stimulus
(from Common Behavior)
+participatingStimulus
1..n
n
InteractionInstanceSet
+interactionInstance
n
+context
1
CollaborationInstanceSet
n
n
n
+participatingInstance
1..n
Instance
(from Common Behavior)
n
+conformingStimulus
n
+conformingInstance
n
n
+playedRole
0..1
+interaction
0..1
+collaboration
+playedRole
n
Message
+message
1..n
1
Interaction
+interaction
*
+context
1
Collaboration
1
+/ownedElement
1..*
ClassifierRole
multiplicity : Multiplicity
1
+/ownedElement
*
AssociationRole
multiplicity : Multiplicity
+playedRole
n

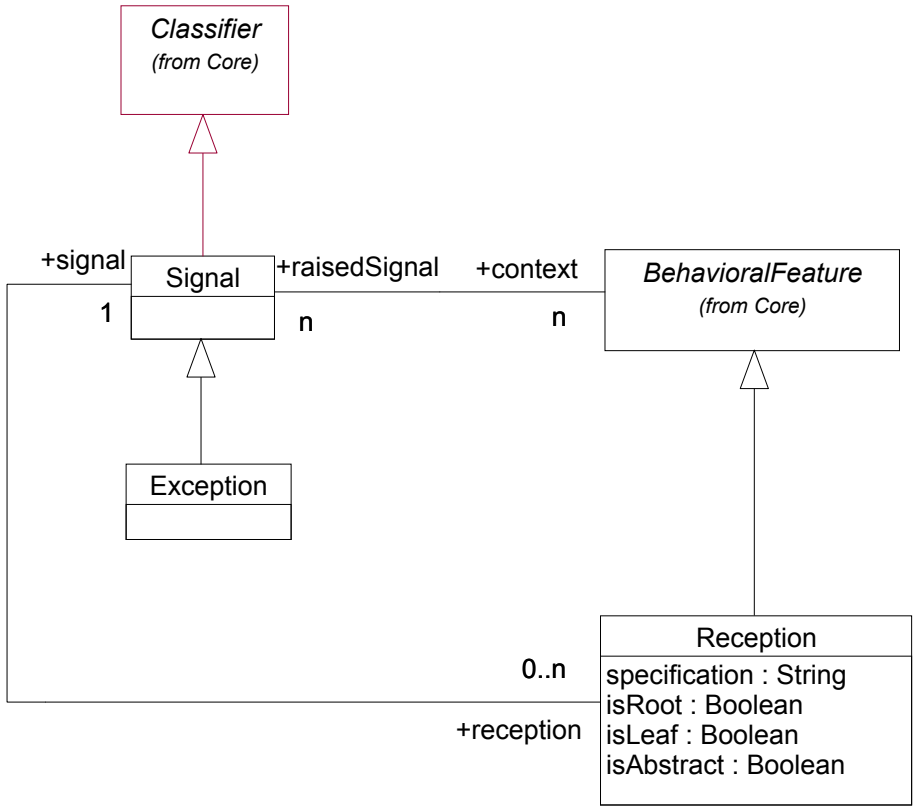

GeneralizableElement
(from Core)
Namespace
(from Core)
Collaboration
+representedOperation
Operation
(from Core)
*
0..1
{xor}
*
0..1
Classifier
(from Core)
+representedClassifier
n
n
+usedCollaboration
1
+context
*
ModelElement
(from Core)
Interaction
+interaction
+message
Message
1
1..n

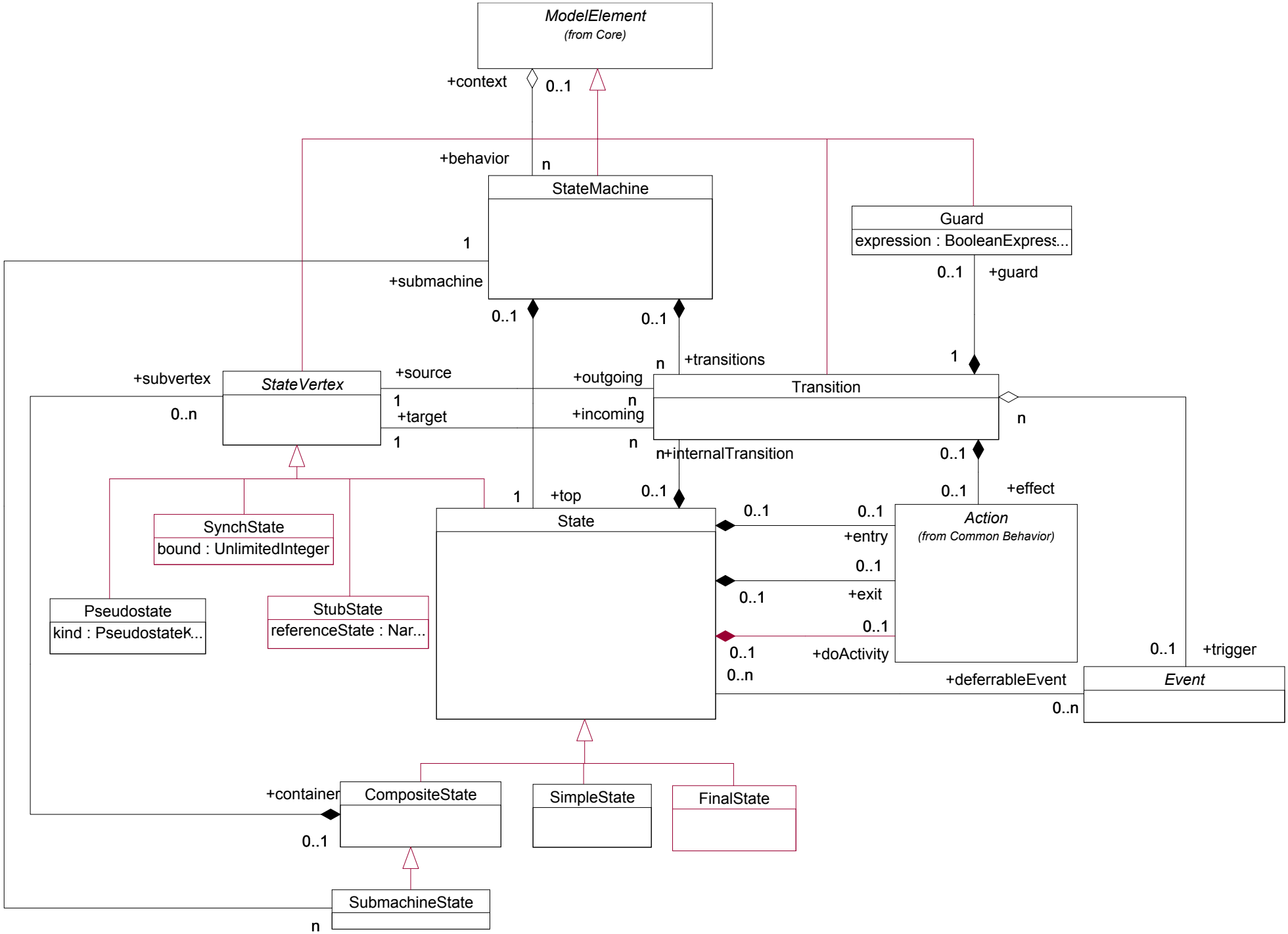

ModelElement
(from Core)
AttributeLink
{order...
n
+qualifierValue
0..1
Stimulus
n
0..1
Link
LinkEnd
+linkEnd
+connection
+communicationLink
*
1
{ordered}
2 .. *
*
+ownedLink
*
*
1
+association
+associationEnd
1
Instance
+owner
Association
(from Core)
+connection
AssociationEnd
(from Core)
0..1
1
{ordered}
2..*
1
+instance
Object
LinkObject

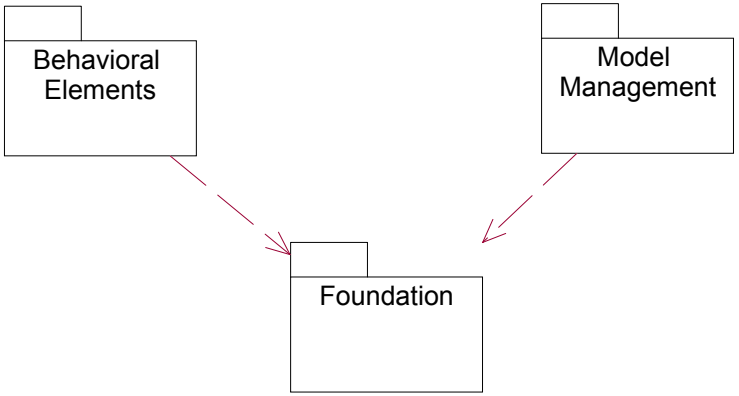

+importedElement
ModelElement
(from Core)
+ownedElement
*
n
ElementOwnership
(from Core)
ElementImport
visibility : VisibilityKind
alias : Name
isSpecification : Bool...
Namespace
(from Core)
0..1
+namespace
GeneralizableElement
(from Core)
*
Package
Classifier
(from Core)
Subsystem
isInstantiable : Boolean
Model

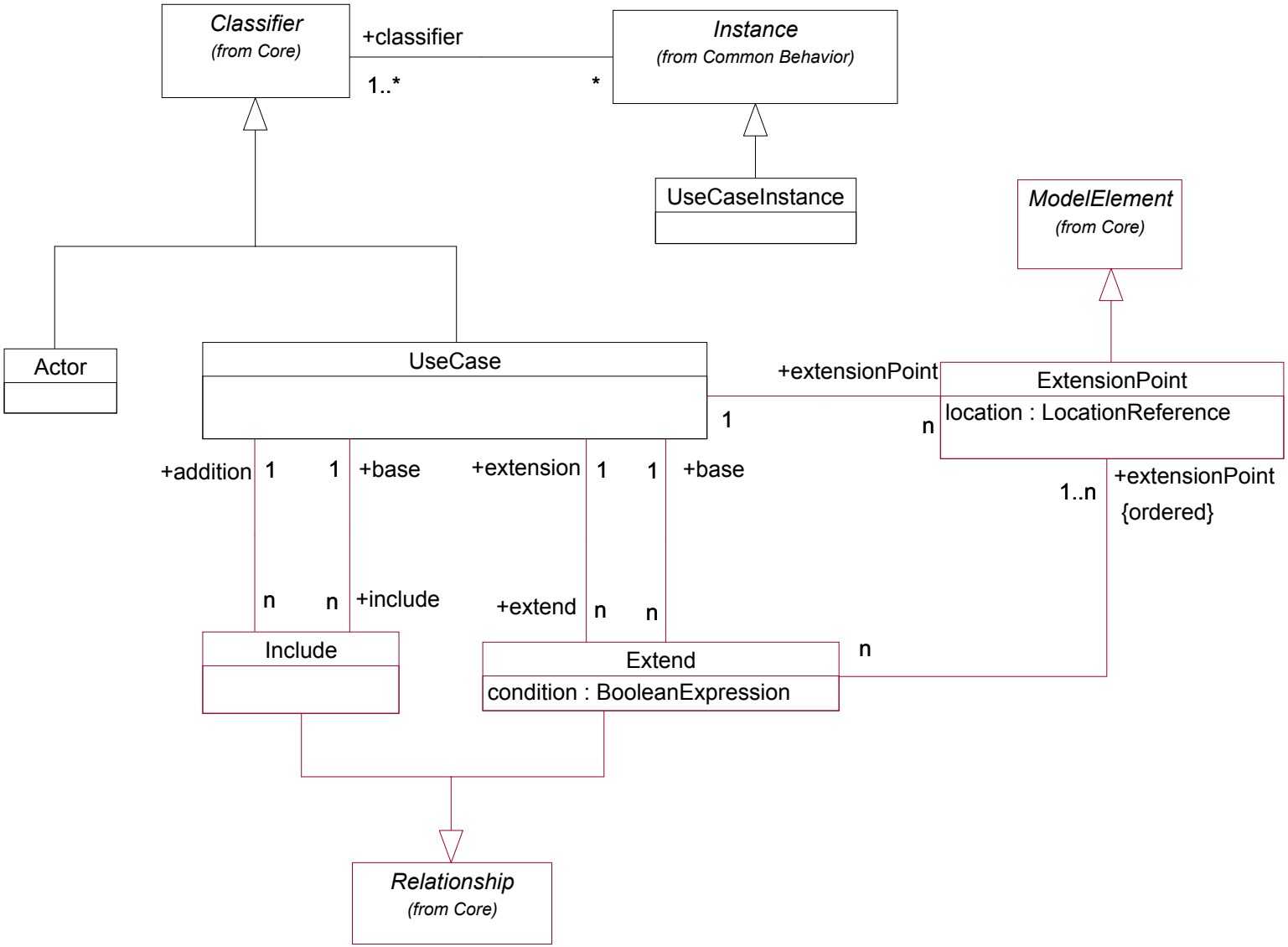

+source
ModelElement
name : Name
n
+target
n
Relationship
+sourceFlow
+targetFlow
n
n
Flow
Generalization
discriminator : Name
+generalization
+child
n
1
n
1
+specialization
+parent
GeneralizableElement
isRoot : Boolean
isLeaf : Boolean
isAbstract : Boolean
+powertypeRange
n
+powertype
0..1
Classifier
+participant
+association
1
n
+specification
+specifiedEnd
n
n
AssociationEnd
isNavigable : Boolean
ordering : OrderingKind
aggregation : AggregationKind
targetScope : ScopeKind
multiplicity : Multiplicity
changeability : ChangeableKind
visibility : VisibilityKind
{ordered}
2..*
1
+connection
Association
Class
isActive : Boolean
Attribute
initialValue : Expression
+qualifier
+associationEnd
n
{ordered}
0..1
AssociationClass


Collaboration
1
n
1
+constrainingElement
*
ModelElement
(from Core)
Action
(from Common Behavior)
+action
1
+availableContents
n
*
+/ownedElement
n
Association
(from Core)
AssociationRole
multiplicity : Multiplicity
+communicationConnection
Message
+predecessor
n
n
0..1
*
+base
0..1
n
+successor
1
1
+activator
0..1
Attribute
(from Core)
n
+availableQualifier
n
{ordered}
2..*
+connection
+/connection
2..*
n
AssociationEnd
(from Core)
AssociationEndRole
collaborationMultiplicity : Multiplicity
n
+sender
1
1
+receiver
+/type
ClassifierRole
0..1
*
+base
*
1
multiplicity : Multiplicity
Feature
(from Core)
*
n
1..*
+availableFeature
+/ownedElement
Classifier
(from Core)
+base
1..n
*


Classifier
(from Core)
+signal
Signal
+raisedSignal
+context
BehavioralFeature
(from Core)
1
n
n
Exception
Reception
0..n
specification : String
isRoot : Boolean
isLeaf : Boolean
isAbstract : Boolean
+reception


ModelElement
(from Core)
+context
0..1
+behavior
n
StateMachine
1
+submachine
0..1
0..1
Guard
expression : BooleanExpress...
0..1
+guard
1
n
+transitions
+subvertex
StateVertex
+source
1
+target
1
+outgoing
n
+incoming
n
Transition
n
0..n
n+internalTransition
0..1
0..1
+effect
1
+top
0..1
SynchState
bound : UnlimitedInteger
State
0..1
0..1
Action
(from Common Behavior)
+entry
0..1
0..1
+exit
0..1
Pseudostate
kind : PseudostateK...
StubState
referenceState : Nar...
0..1
+doActivity
0..1
0..n
+deferrableEvent
0..1
+trigger
Event
0..n
+container
CompositeState
0..1
SimpleState
FinalState
SubmachineState
n


Behavioral Elements
Model Management
Foundation


Classifier
(from Core)
+classifier
1..*
*
Instance
(from Common Behavior)
UseCaseInstance
ModelElement
(from Core)
Actor
UseCase
+extensionPoint
ExtensionPoint
location : LocationReference
1
n
+addition
1
1
+base
+extension
1
1
+base
1..n
+extensionPoint
{ordered}
n
n
+include
+extend
n
n
Include
Extend
condition : BooleanExpression
n
Relationship
(from Core)