

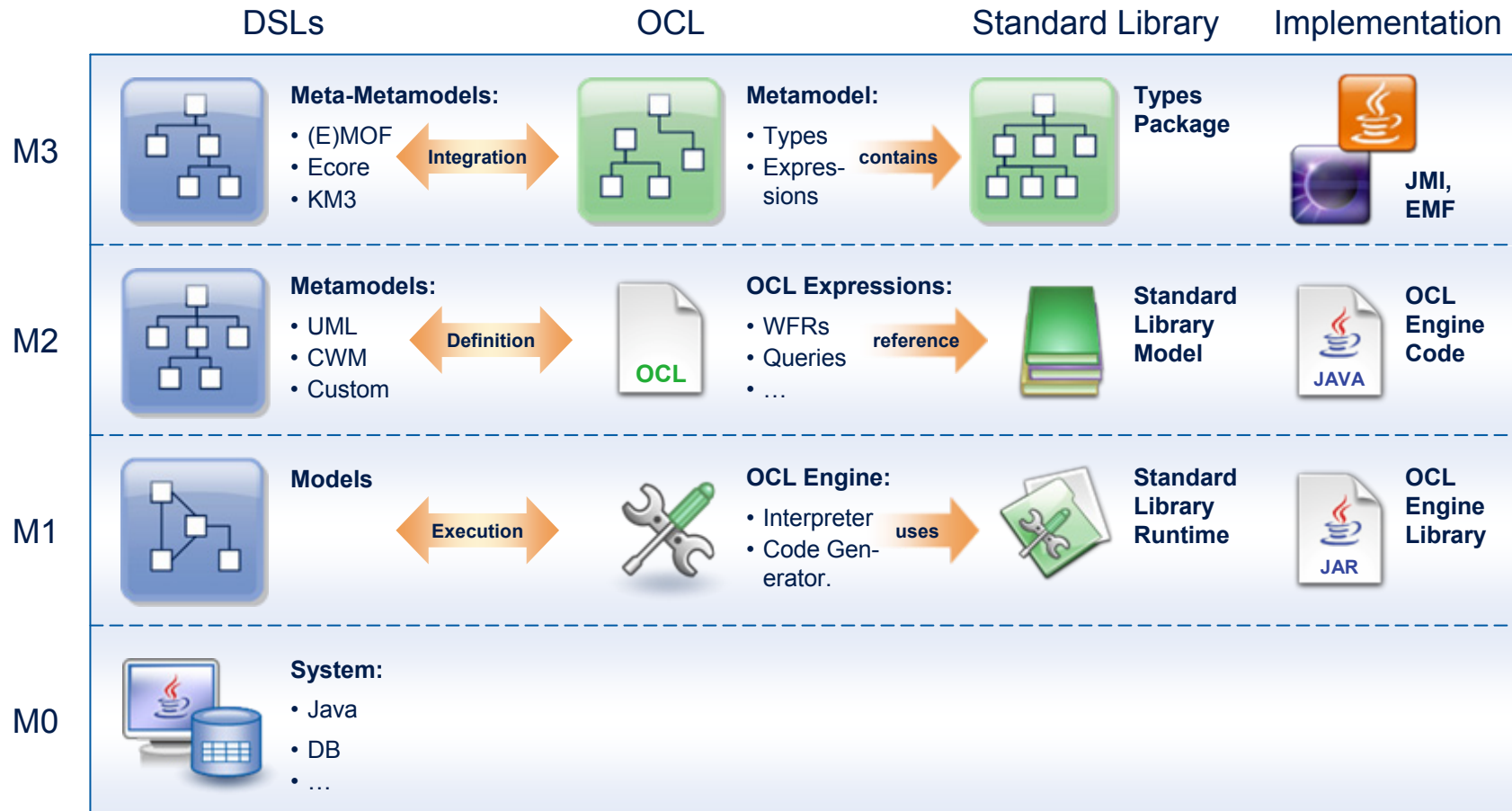


Matthias Bräuer and Birgit Demuth

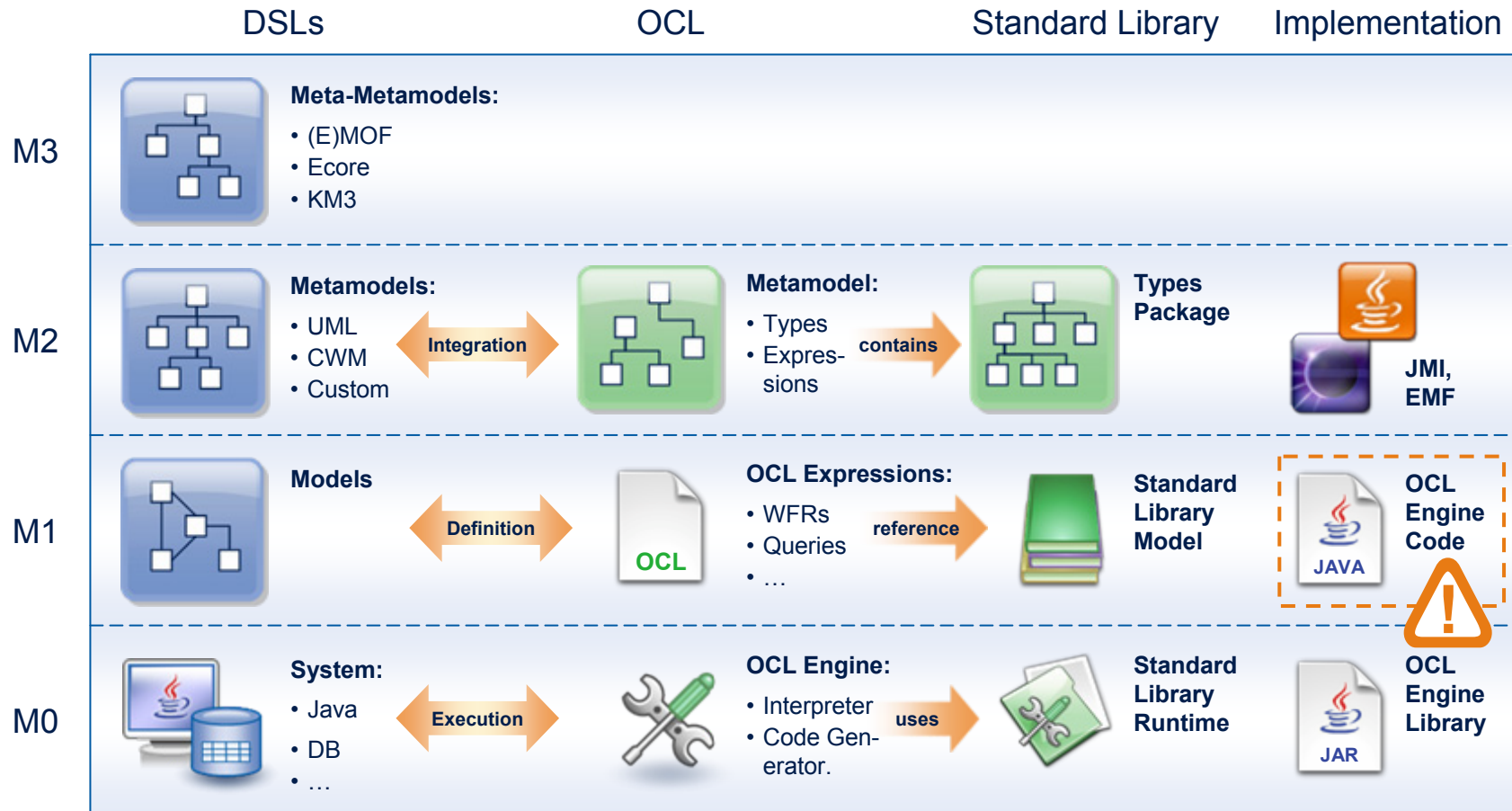
# Model-Level Integration of the OCL Standard Library Using a Pivot Model with Generics Support

Ocl4All: Modelling Systems with OCL  
Workshop at MoDELS 2007  
Nashville, 30 Sept. 2007

# Motivation



# Motivation

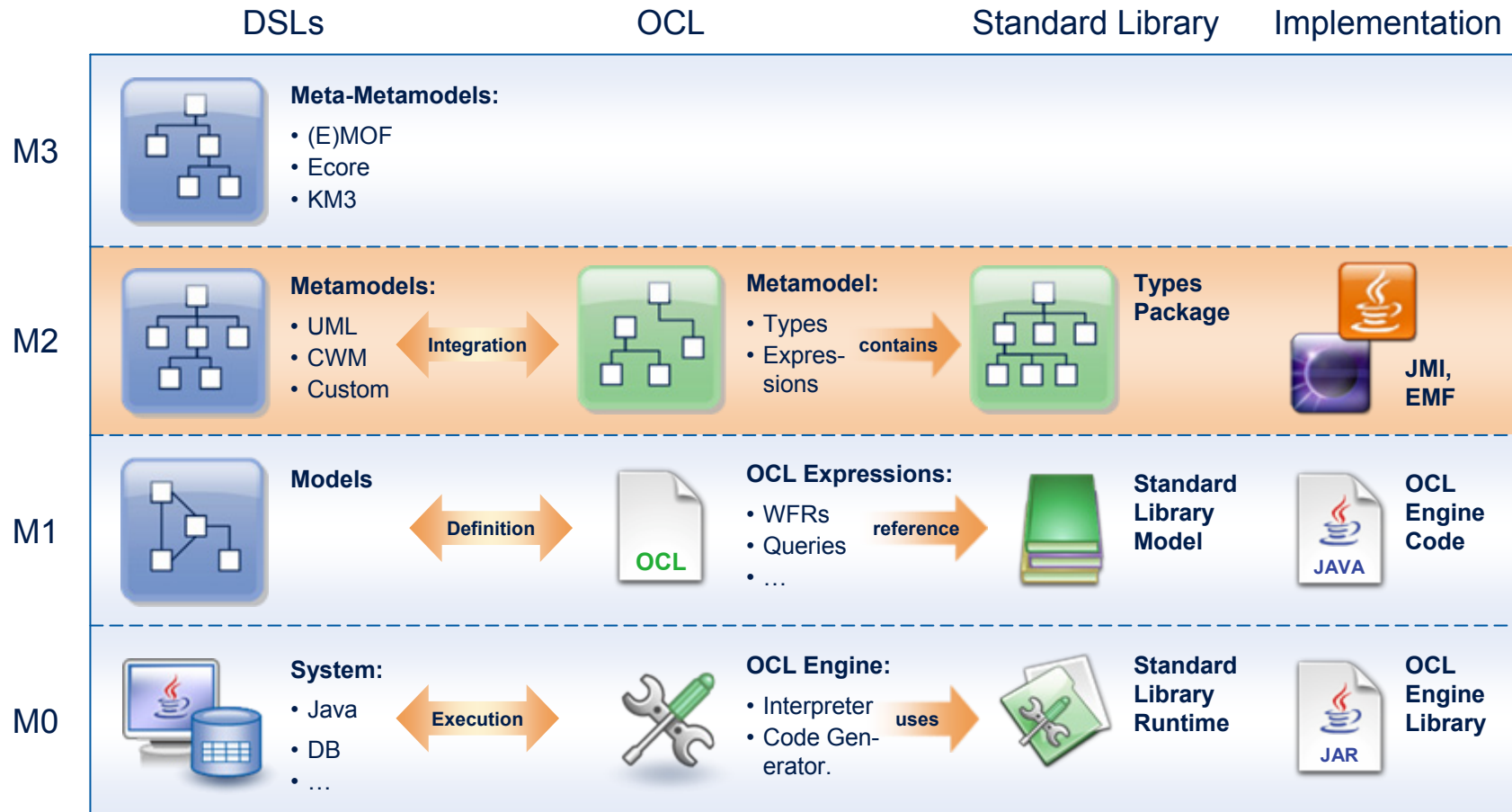


# Aims

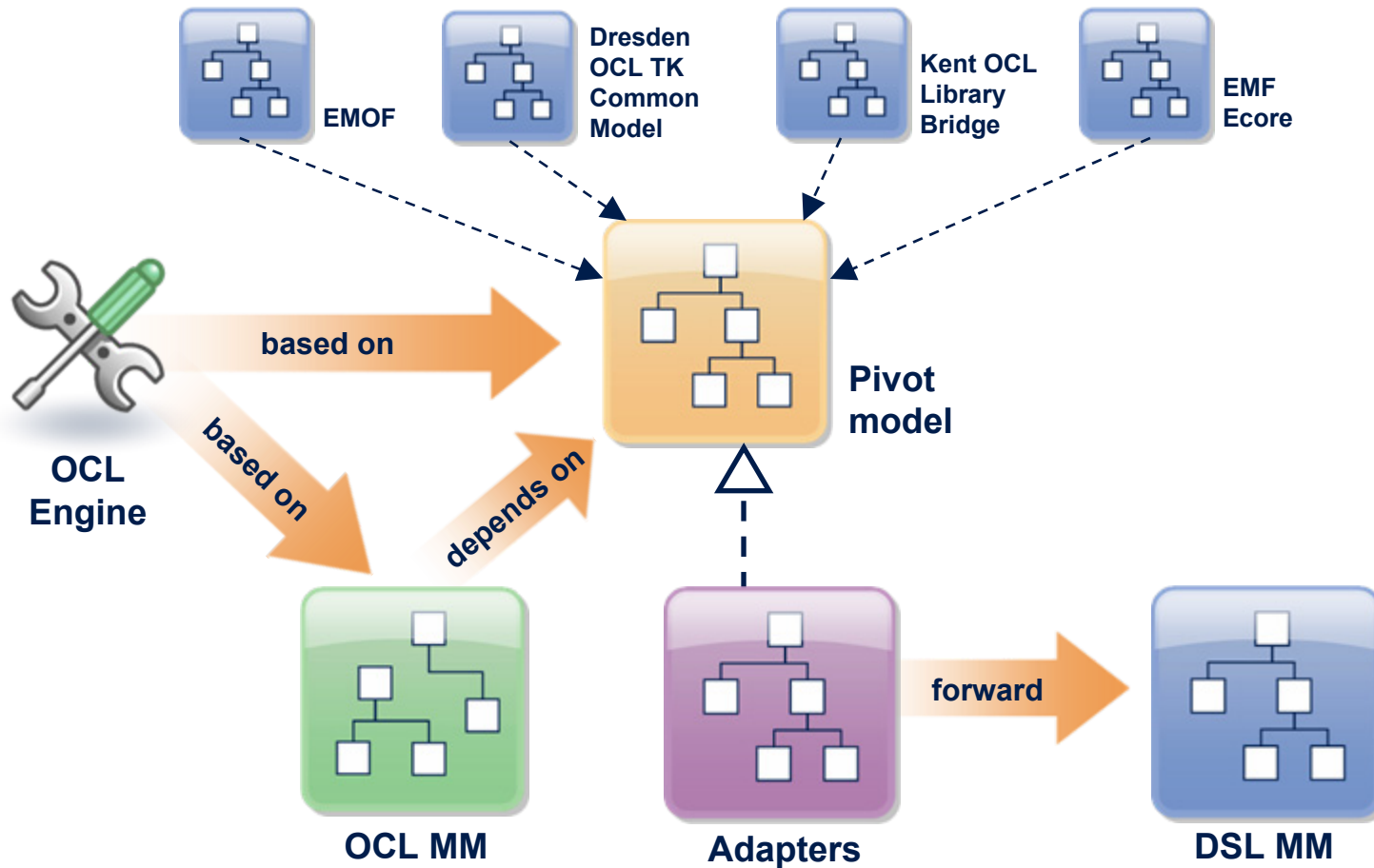
- integrate OCL
  - with arbitrary domain-specific languages
  - on different meta layers
- detach OCL Standard Library from the language definition



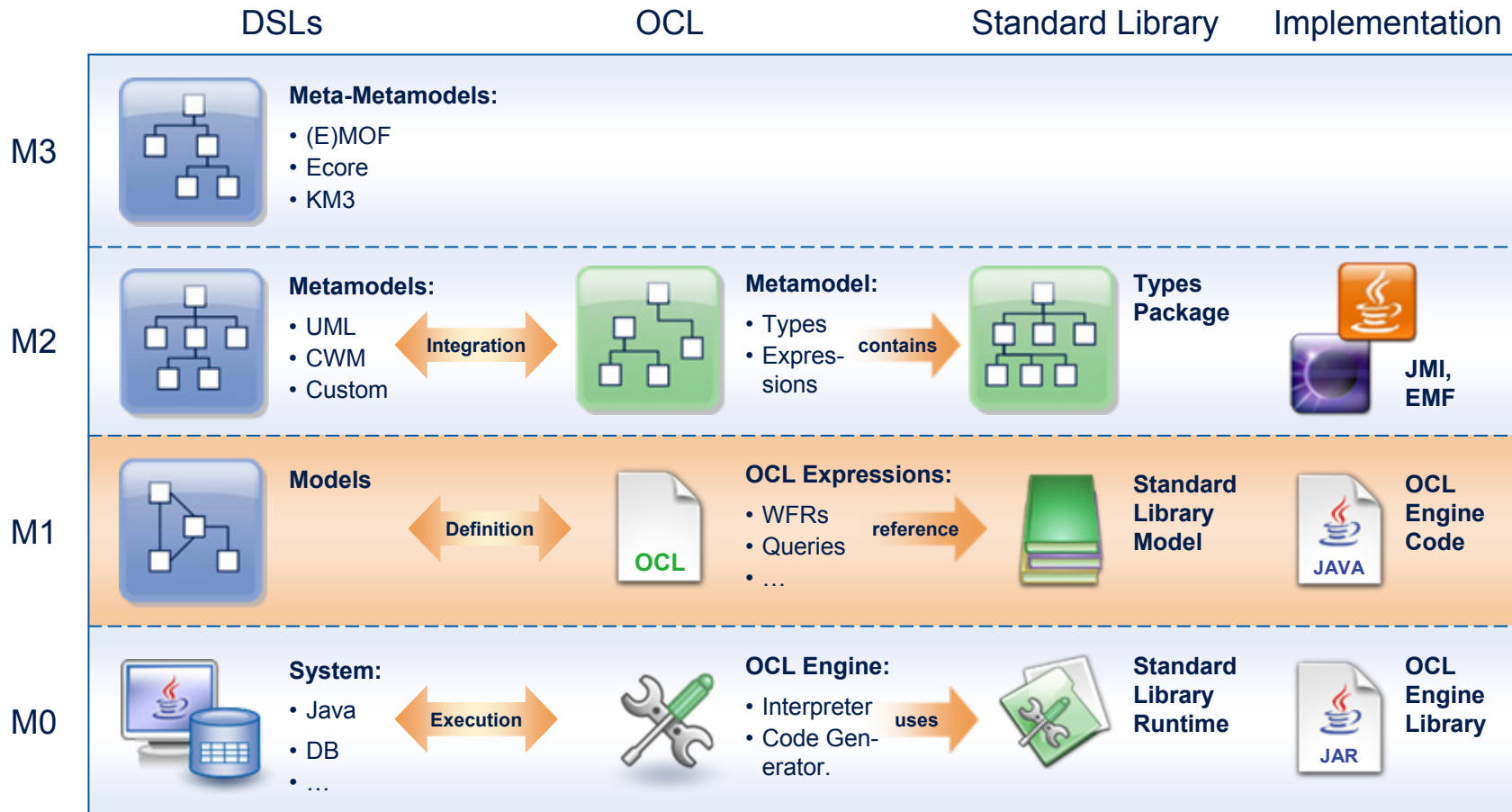
# Integrate OCL metamodel



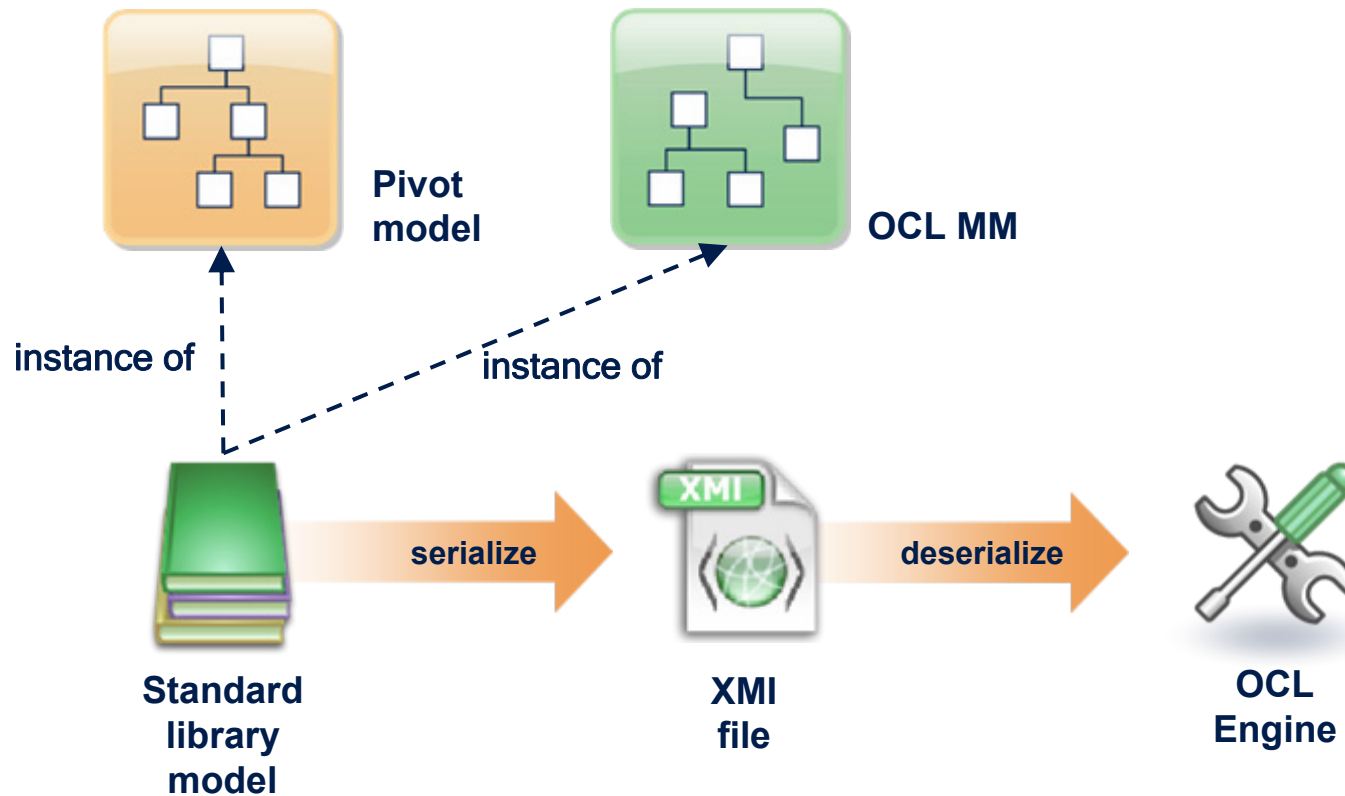
# Integrate OCL metamodel with a pivot model



# Detach the standard library definition



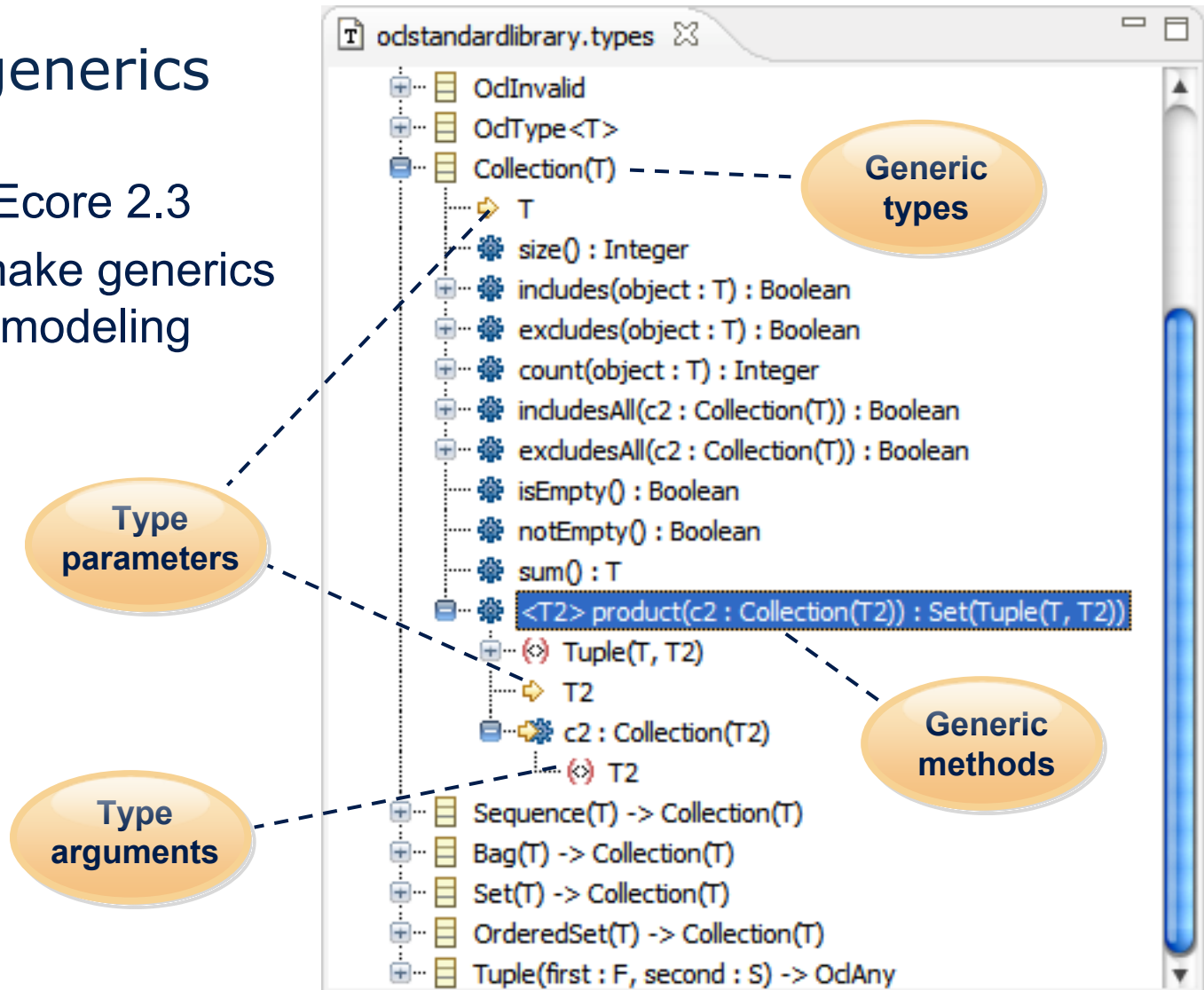
# OCL Standard Library as a pivot model instance



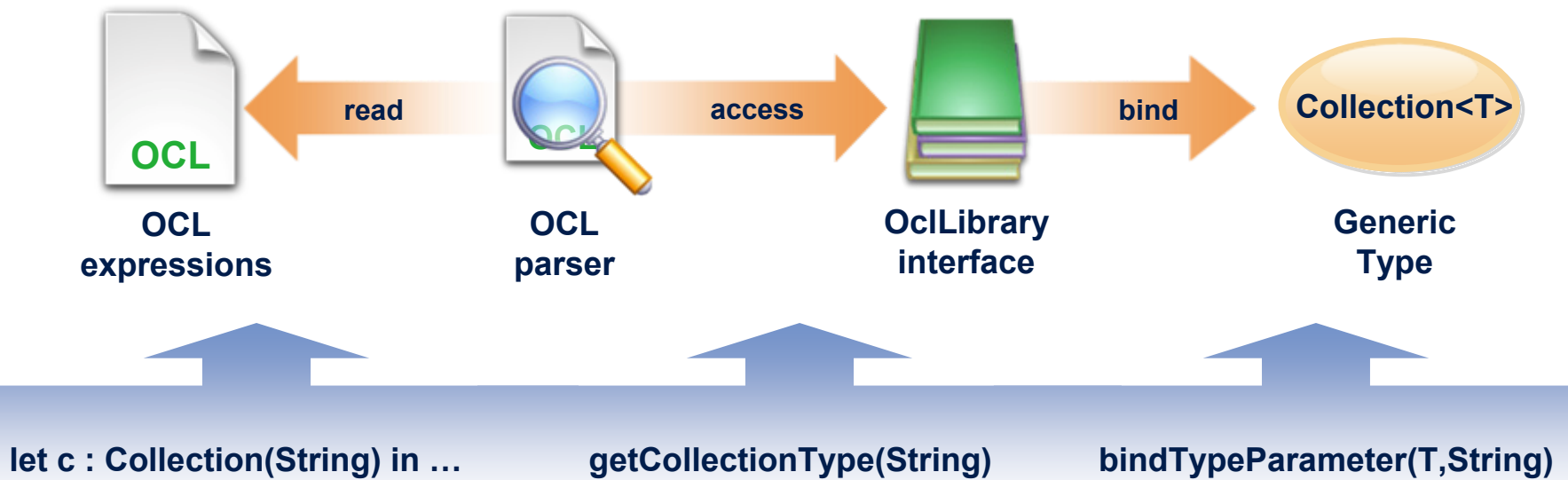


# Modeling generics

- inspired by Ecore 2.3
- core idea: make generics a first-class modeling construct:



## Binding generic types during parsing

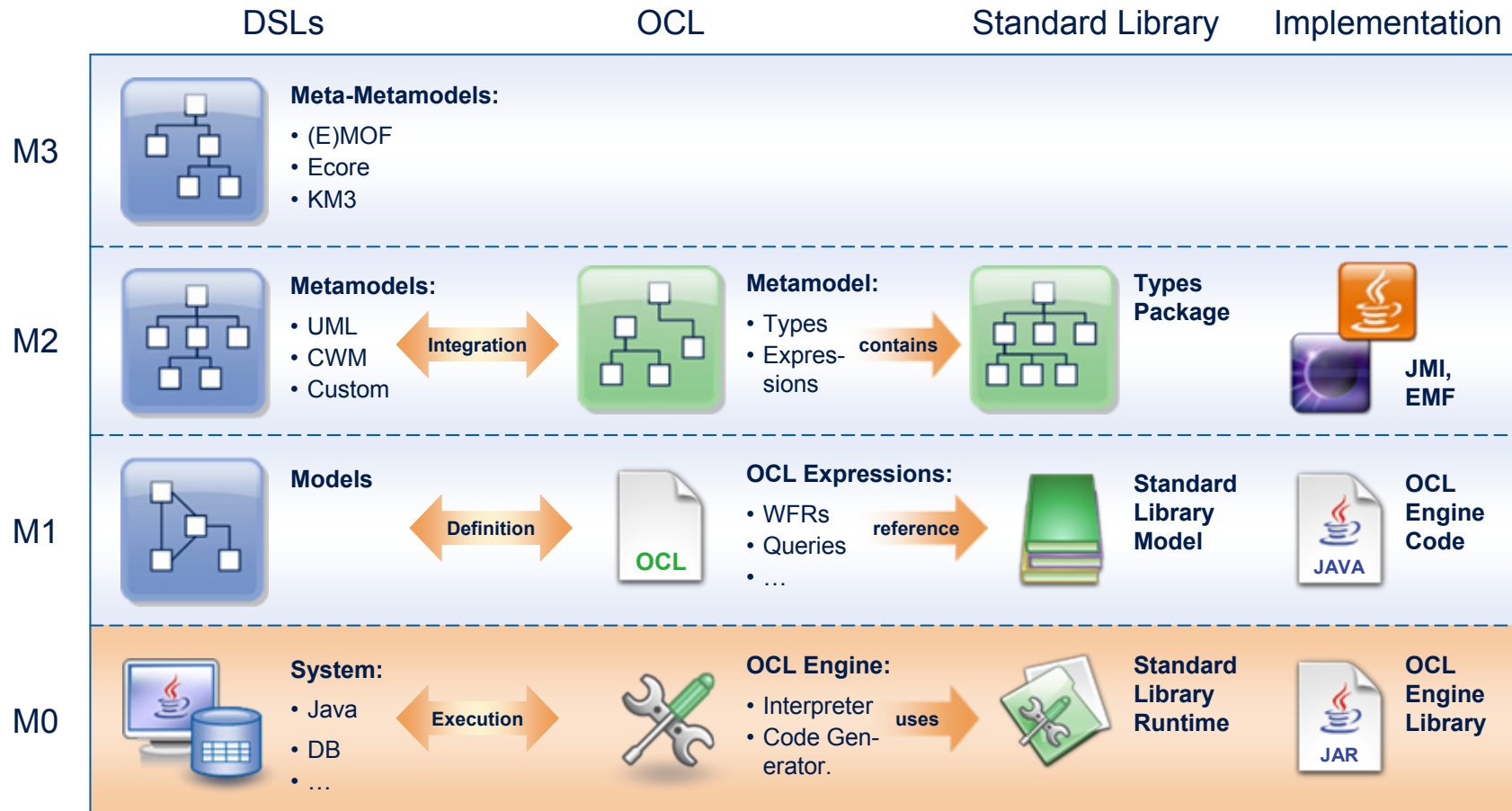


## Open issues

- modeling iterator expressions
- binding of generic operations
- coupling model and instance level



# Provide domain-specific execution semantics



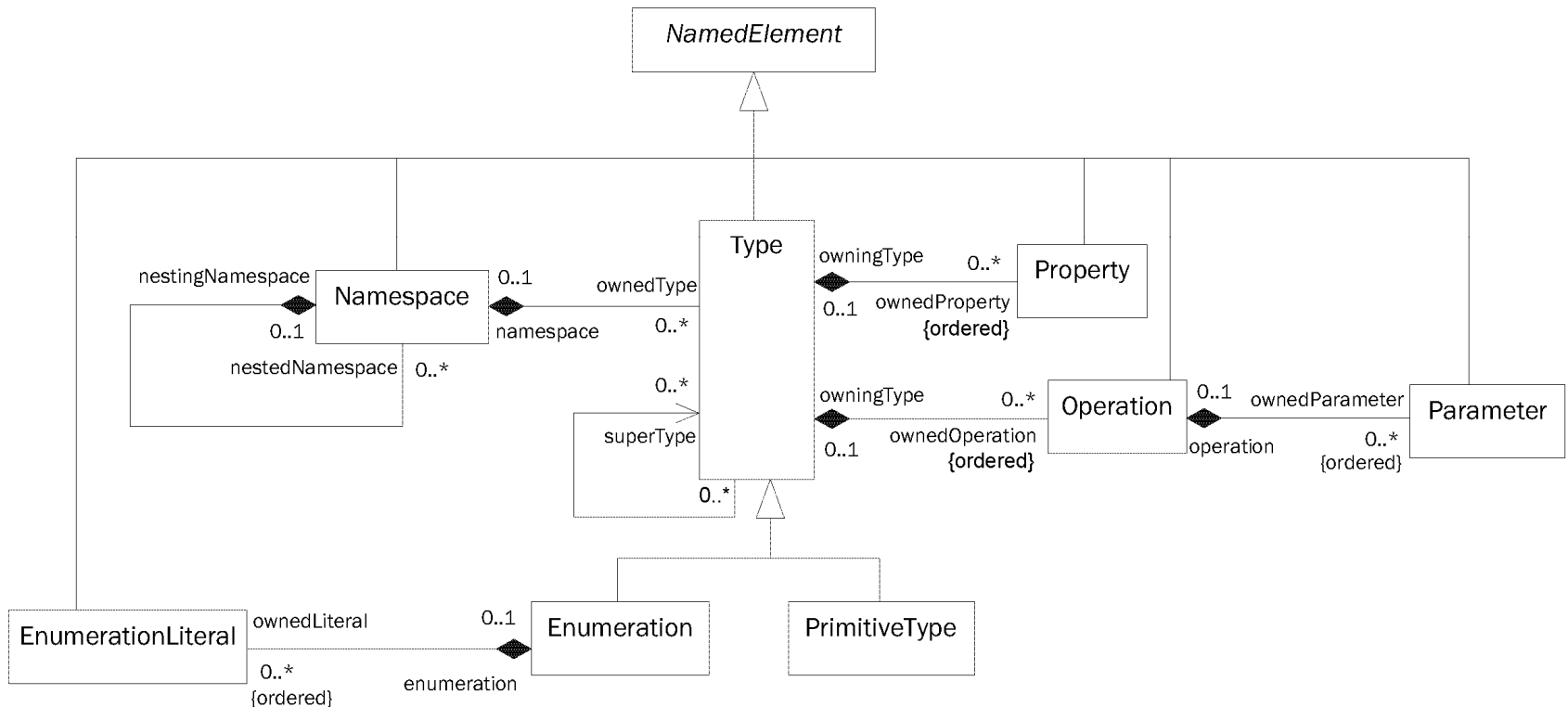
## The end

- Thank you for your attention!
- Questions, comments?

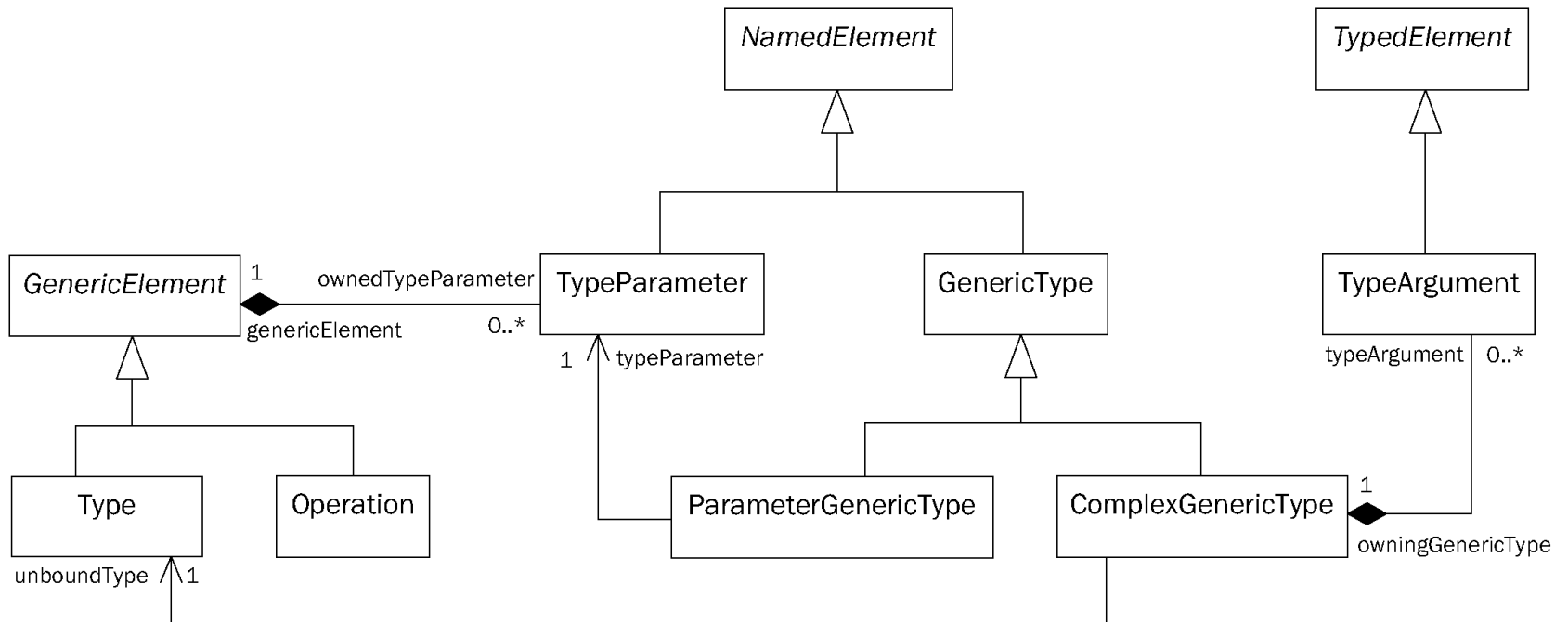


**BACKUP**

# Pivot model overview

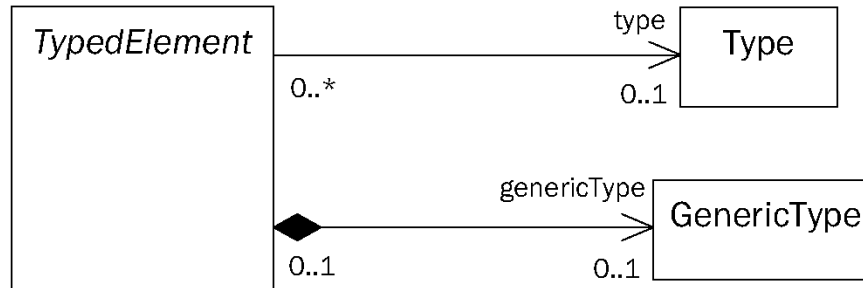


# Generics meta model





# Generic types



# The OclLibrary interface

