



Meta - Levels

- ml = N (collapse of all higher meta levels to one node)
- ml = 3 (meta meta types and meta meta relations)
- ml = 2 (meta types and meta relations)
- ml = 1 (classes and relations)

Layers - Packages

- Layer 0 - MetaMetaMeta
- Layer 1 - ClassInheritance
- Layer 1 - PersistenceStructure
- Layer 2 - Grounding

Visibility

- public (visible to all following layers)
- public+1 (visible to following layer only)
- private (visible to this layer only)

Layer 0 - MetaMetaMeta

MetaTypes (used in this layer)

- mt = metaNTType (ml=N)
- mt = metaType (ml=3)
- mr = metaRelation (ml=3)
- mrs = metaRelationSignature (ml=3)
- rp = relationProperty (ml=3)
- mlt = metaLevelType (ml=2)

Types (used in following layers)

- class = class (ml=2)
- rel = relation (ml=2)
- rs = relationSignature (ml=2)

Relations (all ml=3)

- type = type
- ml = metaLevel
- sig = signature
- st = sourceType
- tt = targetType
- nml = nextMetaLevel
- rpr = relationPropertyRelation

Signature nodes (all ml=3)

- a2at = any-to-anyType
- a2mlt = any-to-metaLevelType
- mlt2mlt = metaLevelType-to-metaLevelType
- mrs2mt = metaRelationSignature-to-metaType
- mnt2mnt = metaNTType-to-metaNTType
- mr2mrs = metaRelation-to-metaRelationSignature
- rs2rp = relationSignature-to-relationProperty

Relation properties (all ml=2)

- man = mandatory
- uni = unique
- imp = implicit
- tra = transient

MetaLevel nodes (all ml=2)

- ml0, ml1, ml2, ml3, mlN

Layer 1 - Class-Inheritance (ml=2)

Relations

- tc = targetClass
- sc = sourceClass
- inh = inheritance
- supc = superClass
- ith = inverseTransitiveHull

Relation Signatures

- c2c = class-to-class
- rs2c = relationSignature-to-class
- r2r = relation-to-relation
- mr2mr = metaRelation-to-metaRelation

Layer 1 - Persistence-Structure (ml=2)

Types

- lay = layer
- pac = package
- sh = sheet
- vn = versionNode
- dn = descriptionNode

Relations

- version = version
- descr = description
- contains = contains
- refers = refers

Relation Signatures

- pa2pa = package-to-package
- pa2sh = package-to-sheet
- pa2ver = package-to-version
- lay2lay = layer-to-layer
- lay2pa = layer-to-package
- sh2a = sheet-to-any
- sh2sh = sheet-to-sheet
- 2desc = to-description

Layer 2 - Grounding

Types (ml=2)

- gt = groundingType

Relations (ml=2)

- gdr = groundingDetailRelation
- grr = groundingReferenceRelation

Relation Signatures (ml=2)

- gt2gt = groundingType-to-groundingType
- gt2a = groundingType-to-any

Grounding Nodes (ml=1)

- 5 grounding nodes