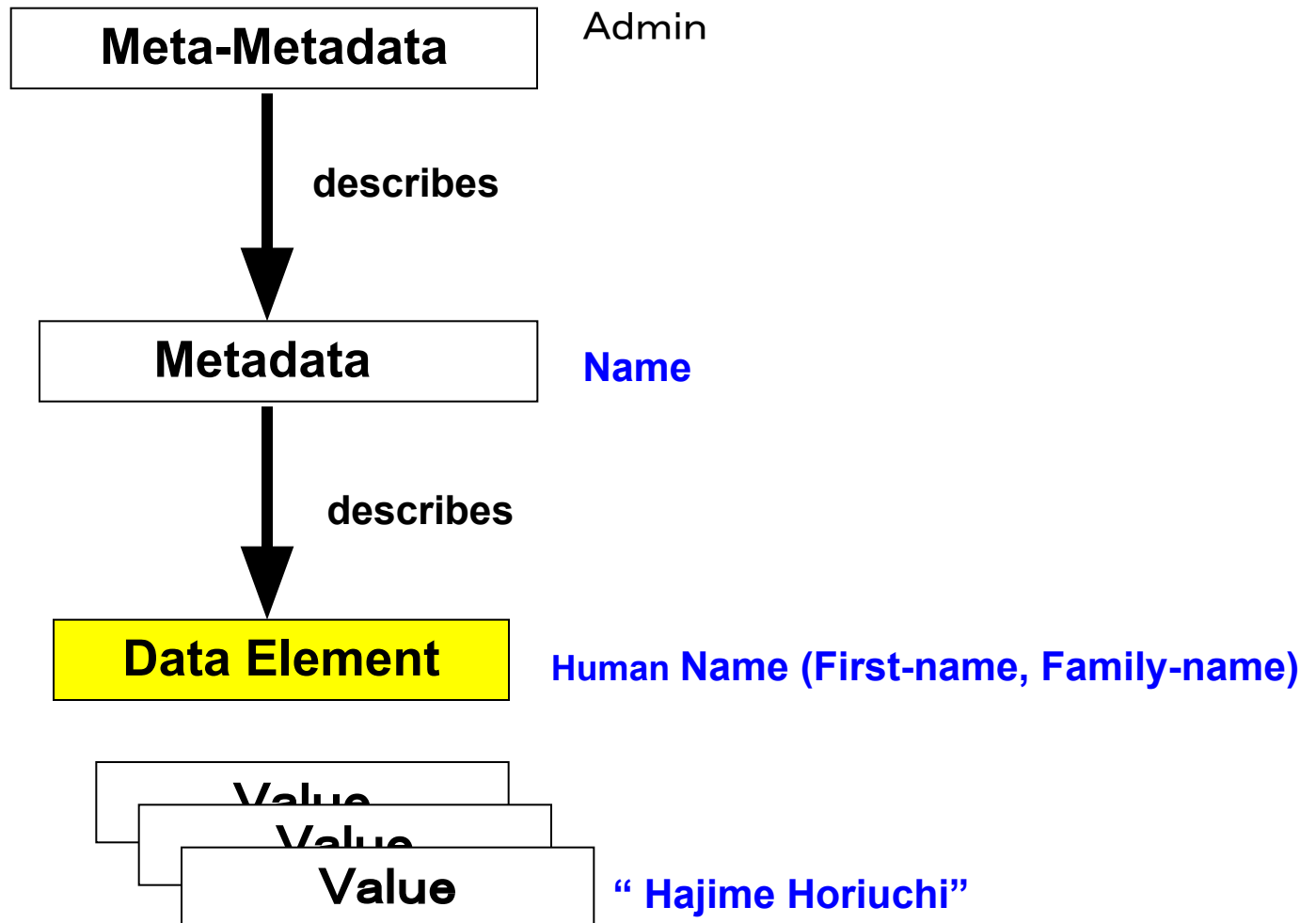


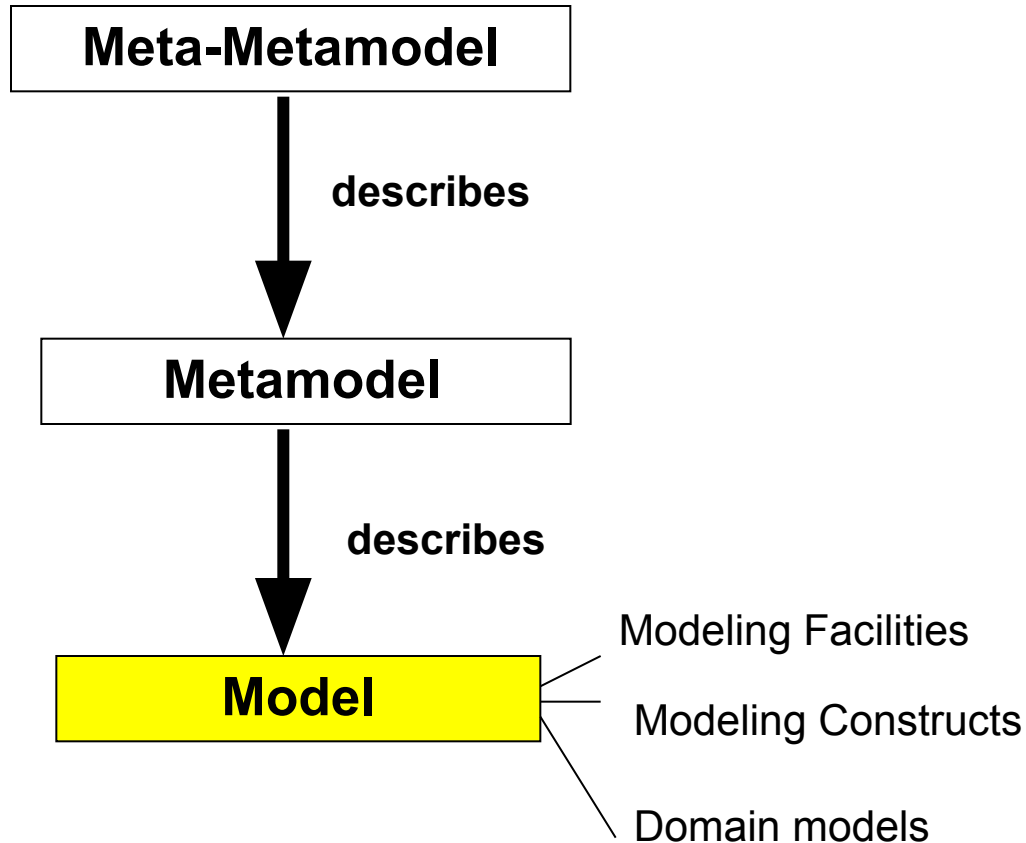
What is Metamodel

- **Metadata:** Data which describes other data
- **Metamodel:** Model which describes other model

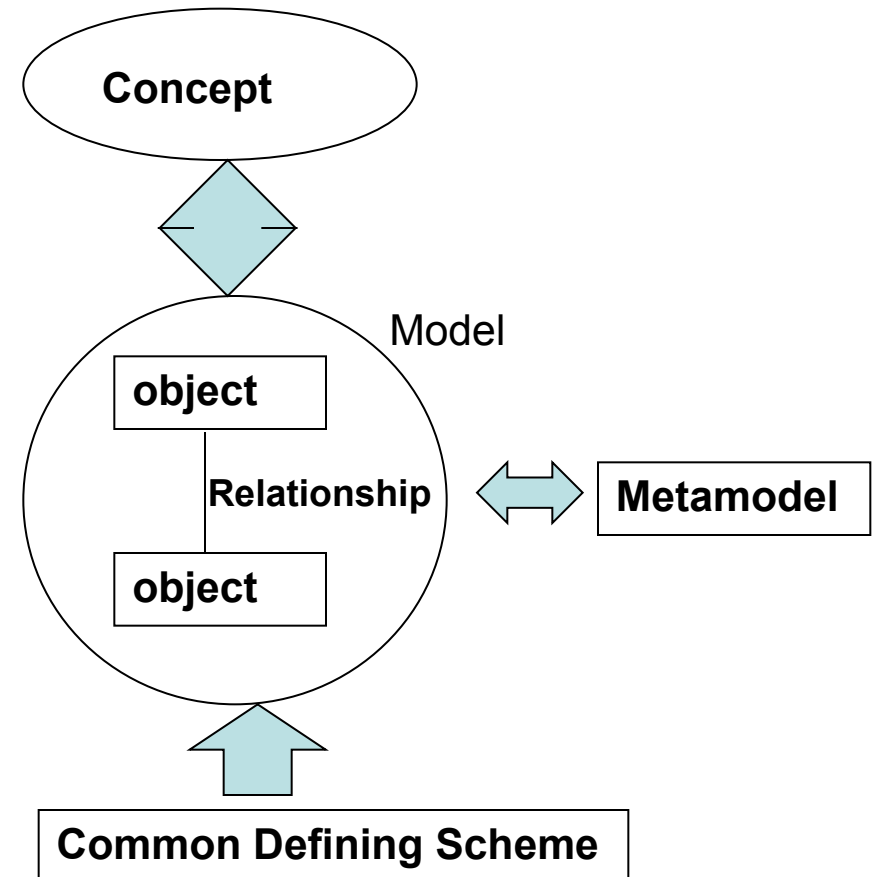
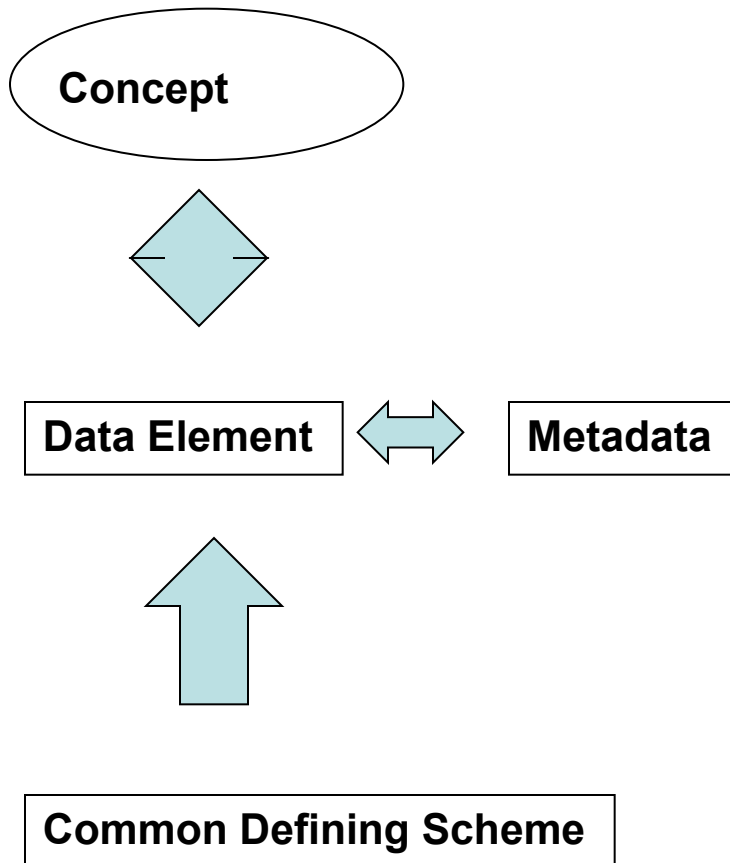
Metadata Hierarchy



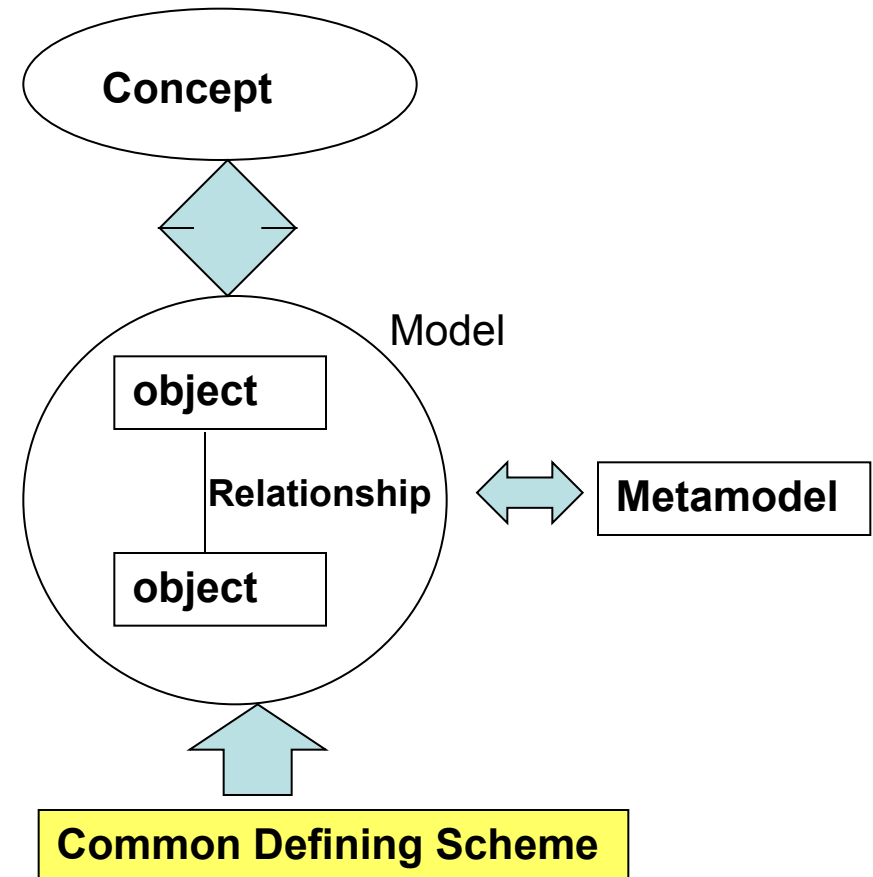
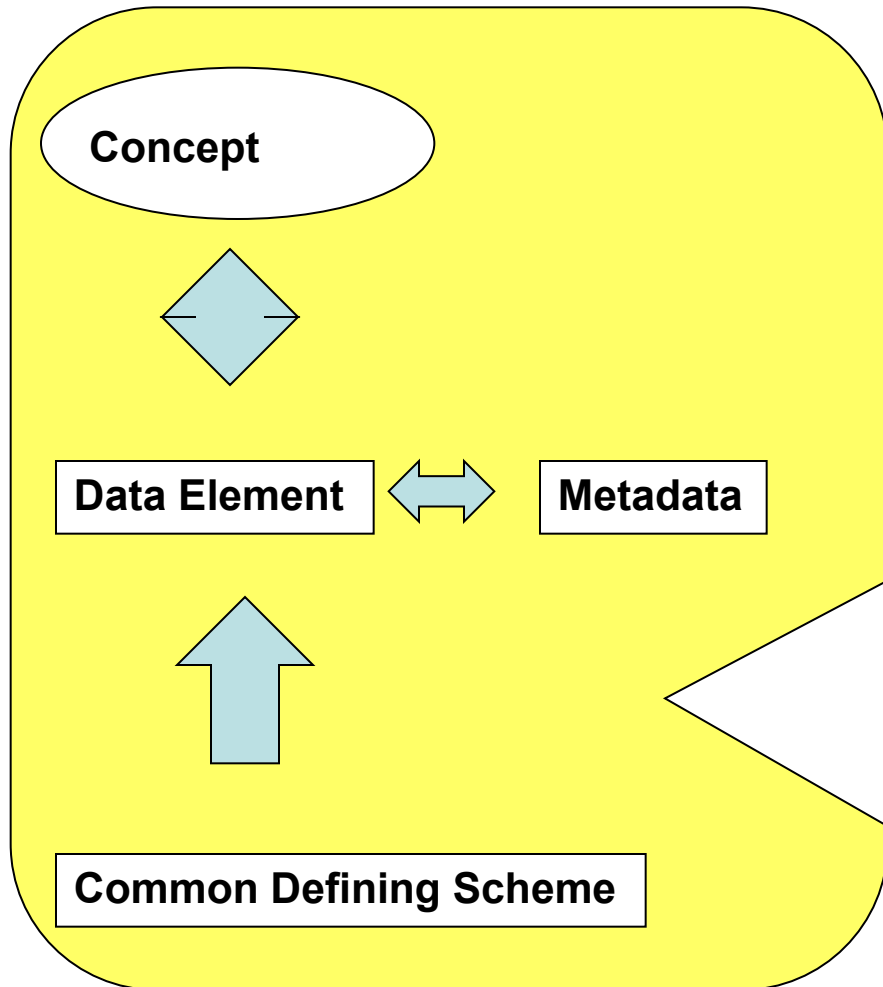
Metamodel Hierarchy



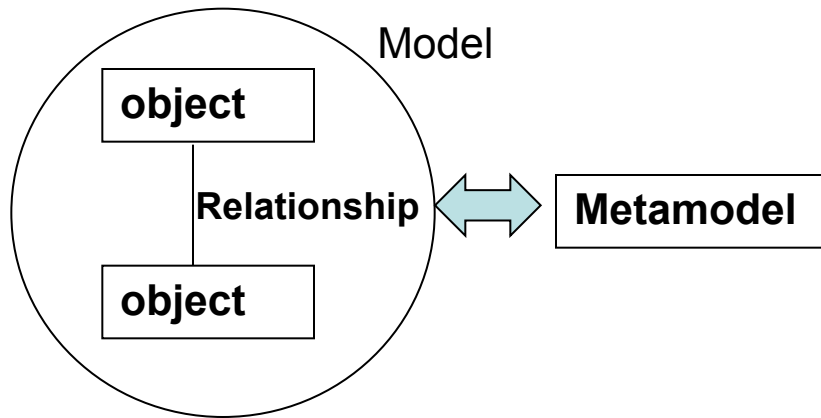
Difference between Metadata & Metamodel



Metadata must be a base to support Defining of Metamodels



Metamodel Features



- What is the base object for defining an object
- How to identified or named
- What Structure an object has
- What relationships an object has
- What Behavior an object has
- What constraints an object has
- Etc.

Meta Hierarchy in MOF

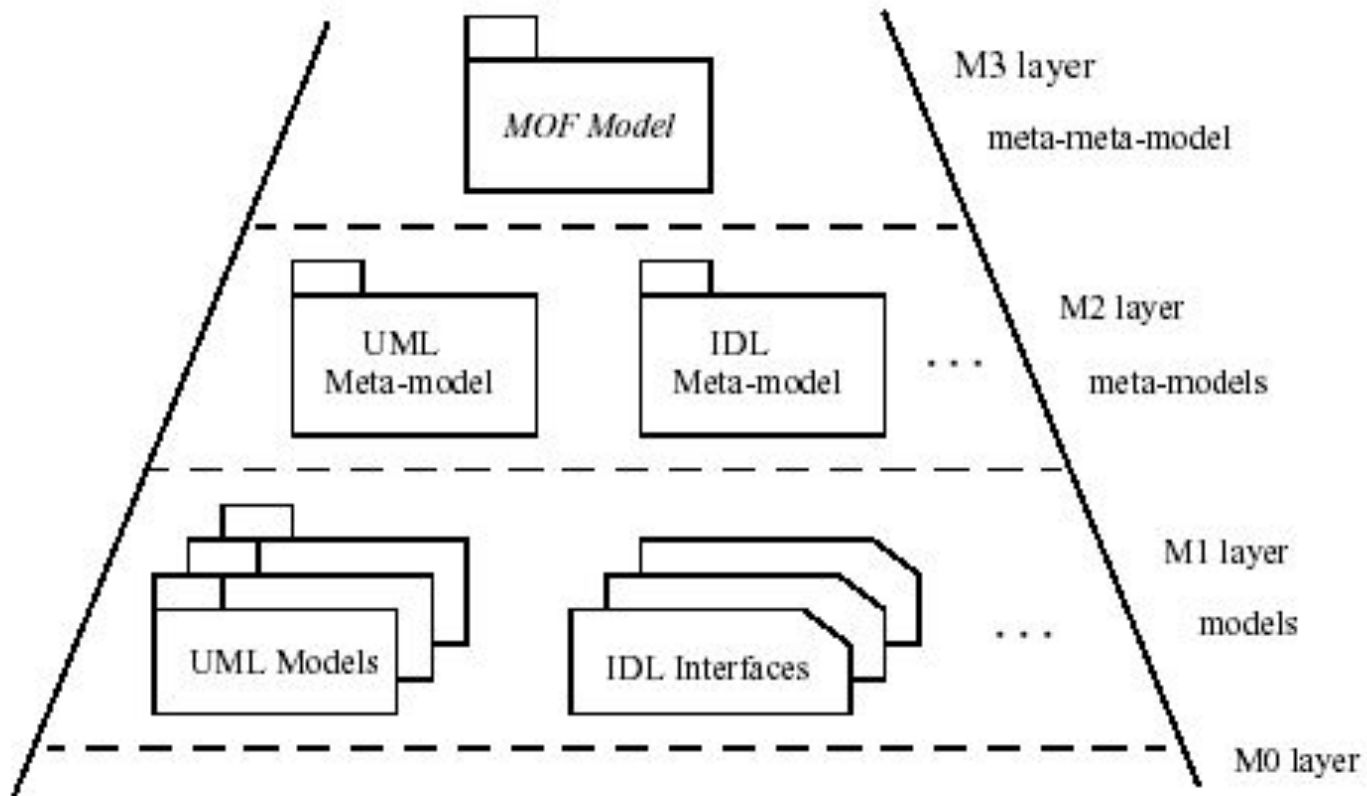
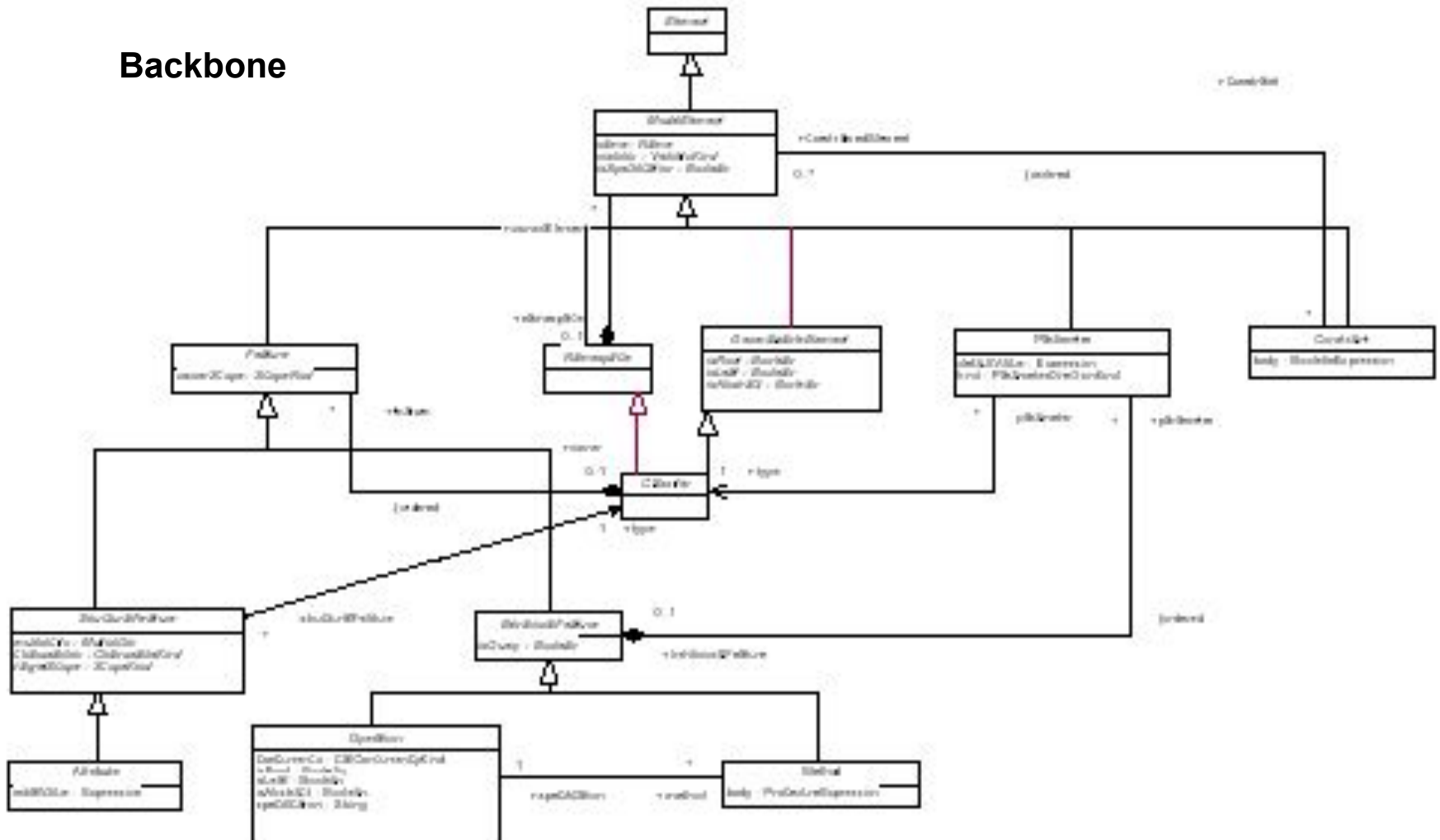


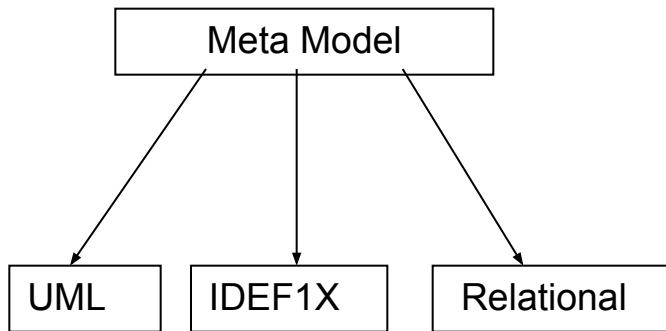
Figure 2-2 MOF Meta-data Architecture

Backbone

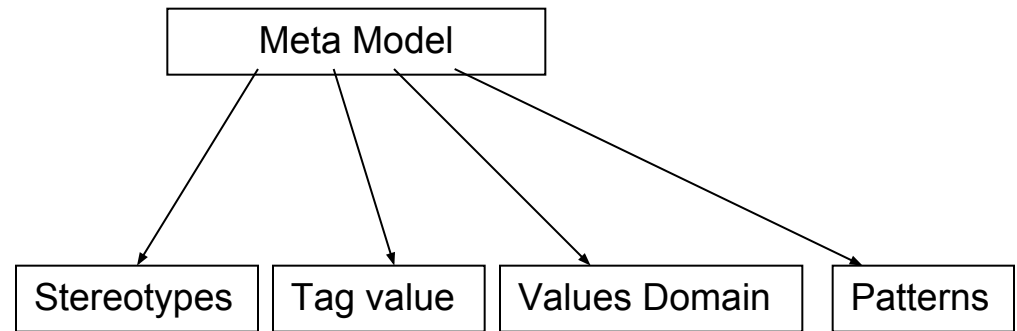


Meta Models

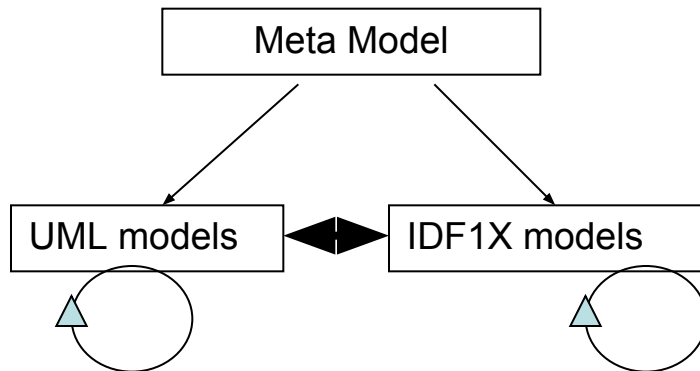
Metamodel for Modeling Facilities



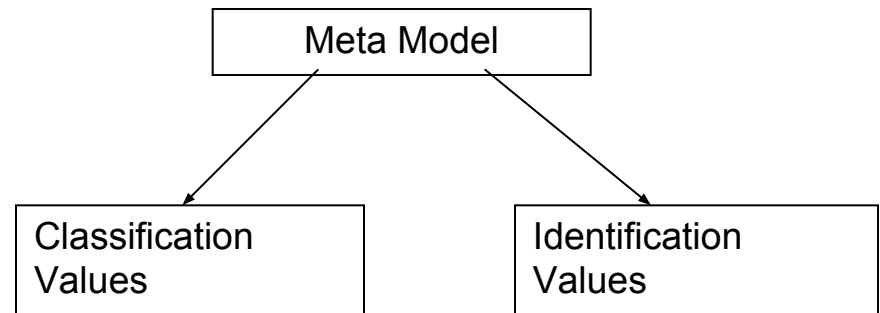
Metamodel for Modeling Constructs



Metamodel for Mapping

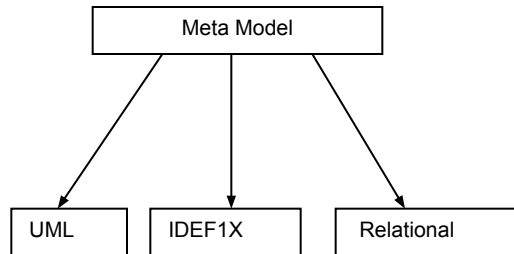


Metamodel for Ontology & Identification

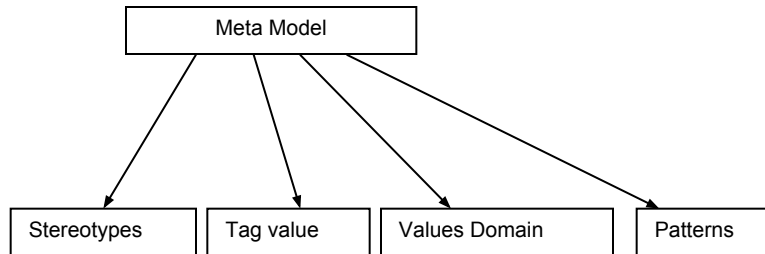


Metamodel Framework

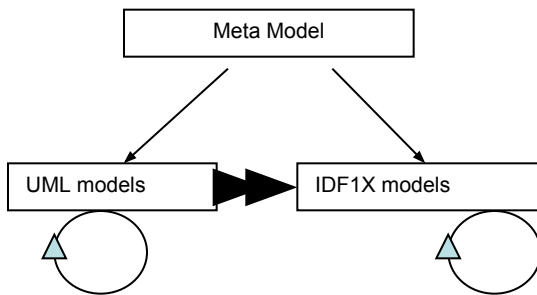
Metamodel for Modeling Facilities



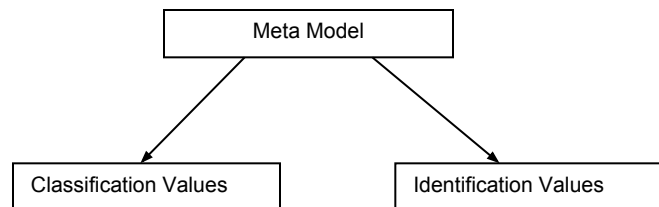
Metamodel for Modeling Constructs



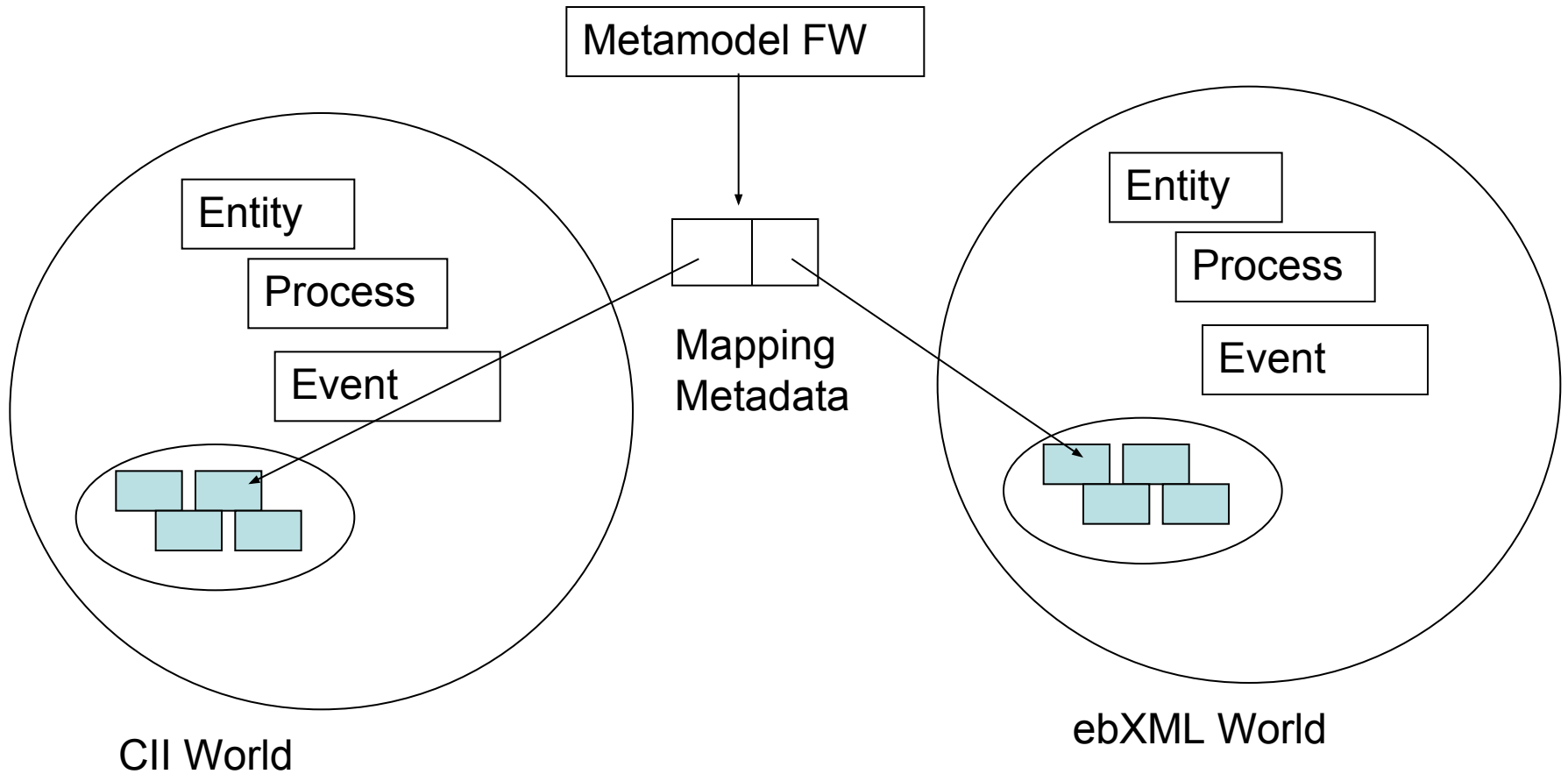
Metamodel for Mapping



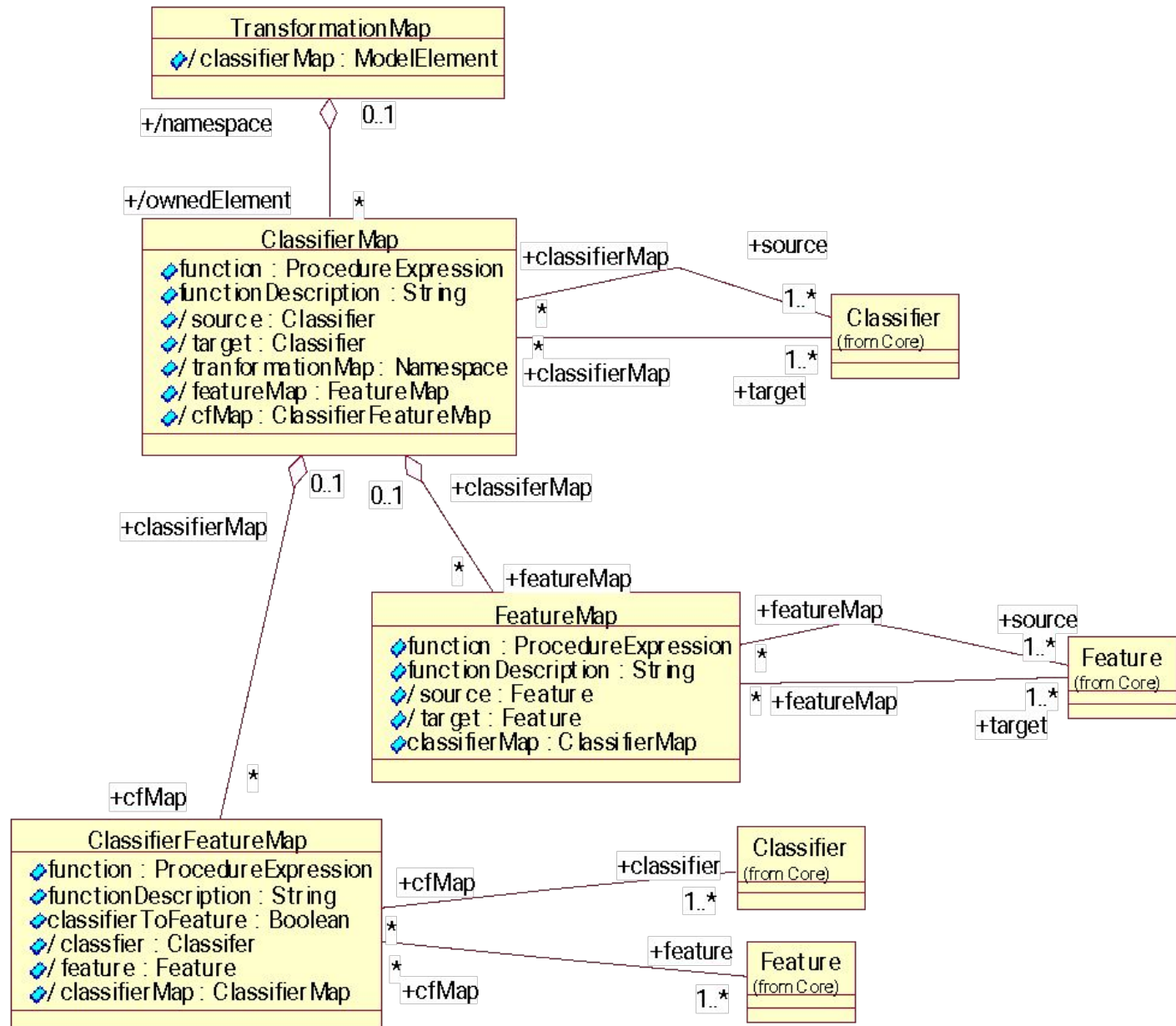
Metamodel for Ontology & Identification



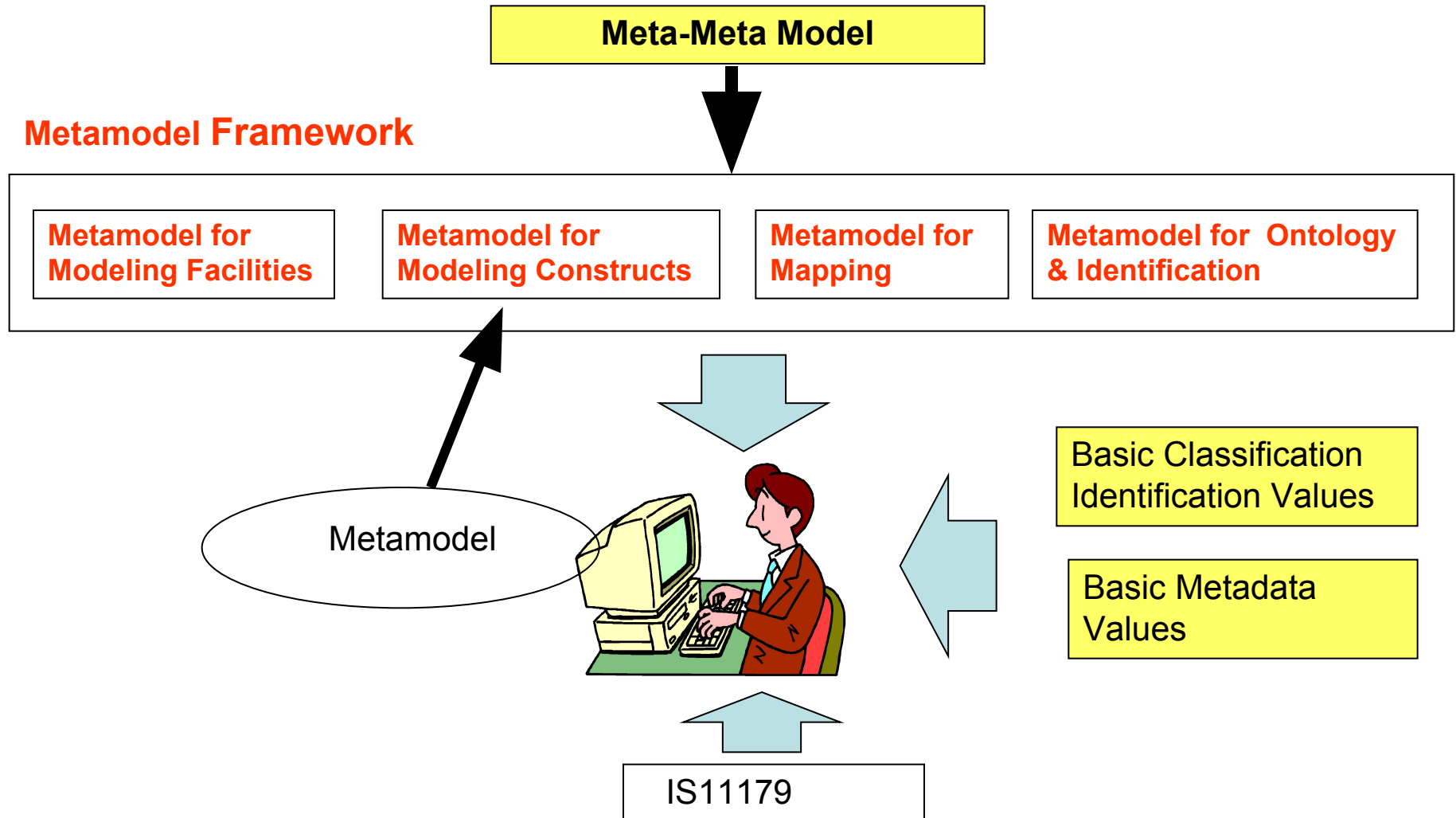
Mapping between Cultures



Metamodel for Metamodel Mapping (OMG CWM)

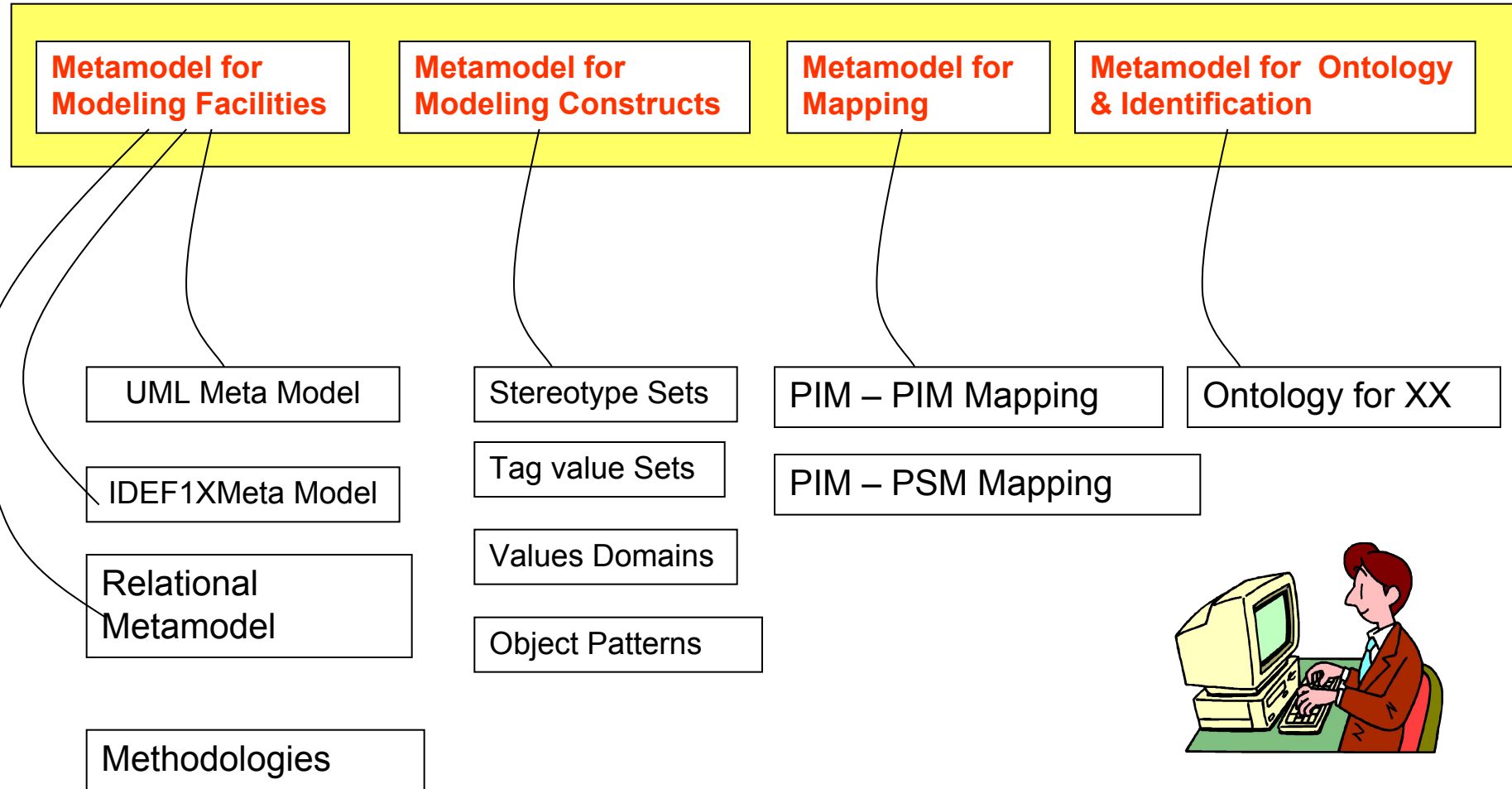


Standardization Issue of Metamodel Framework

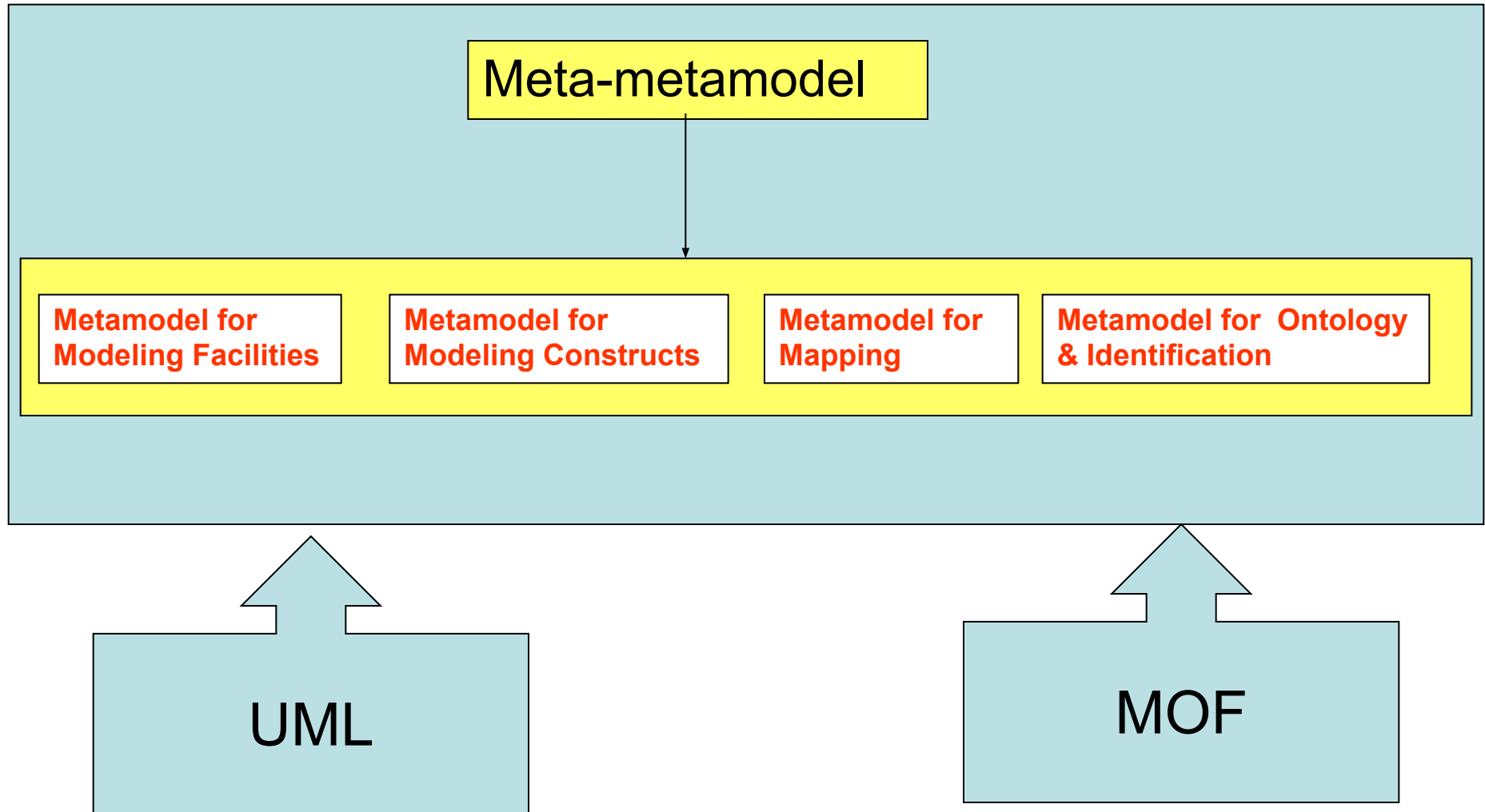


Registration of Metamodels

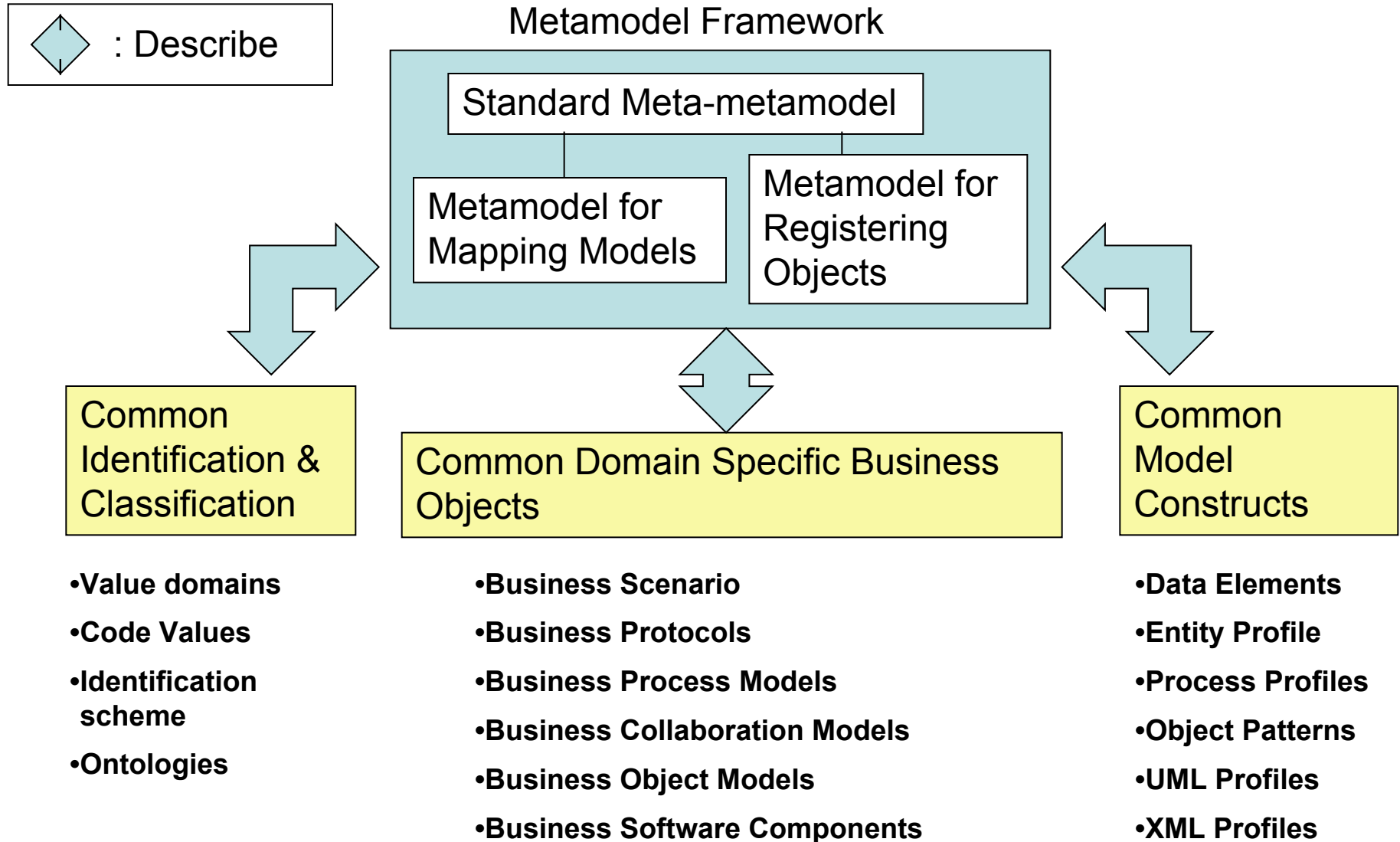
Metamodel Framework



Core of the Framework



Application of the MM Framework

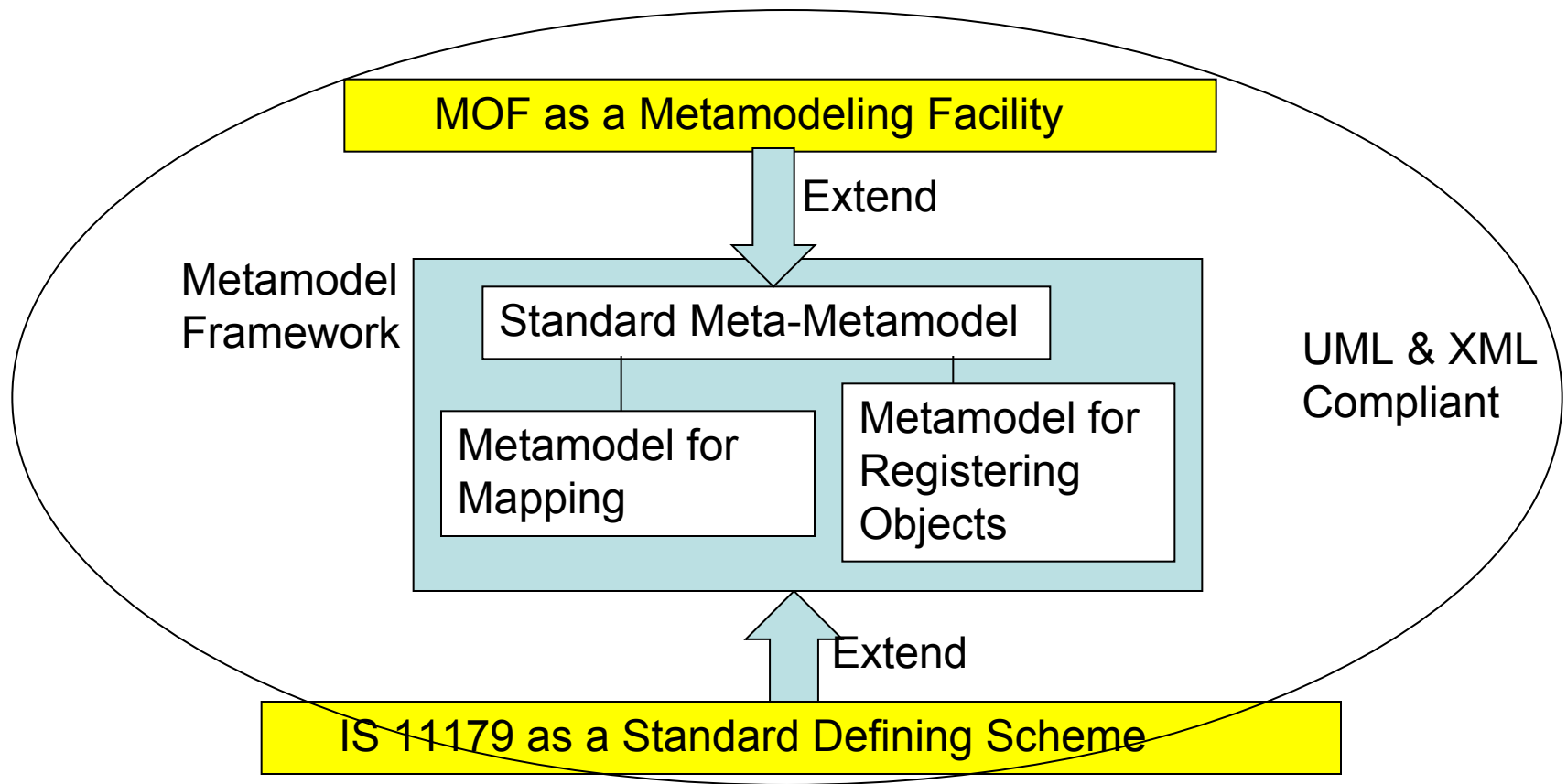


Issues for the Project

Issues for the Project

- MOF/XMI PAS proceeding
- MOF Extensions with OMG MOF2.0 project
- Drafting an overall structure of the Framework
- Developing Specification of each metamodel
- Linkage to Business Transaction Semantics

Scope of the NWI



Activities

MOF PAS ballots Editing and Resolutions

Overall structure of
the Metamodels

Extensions of MOF as a meta-metamodel

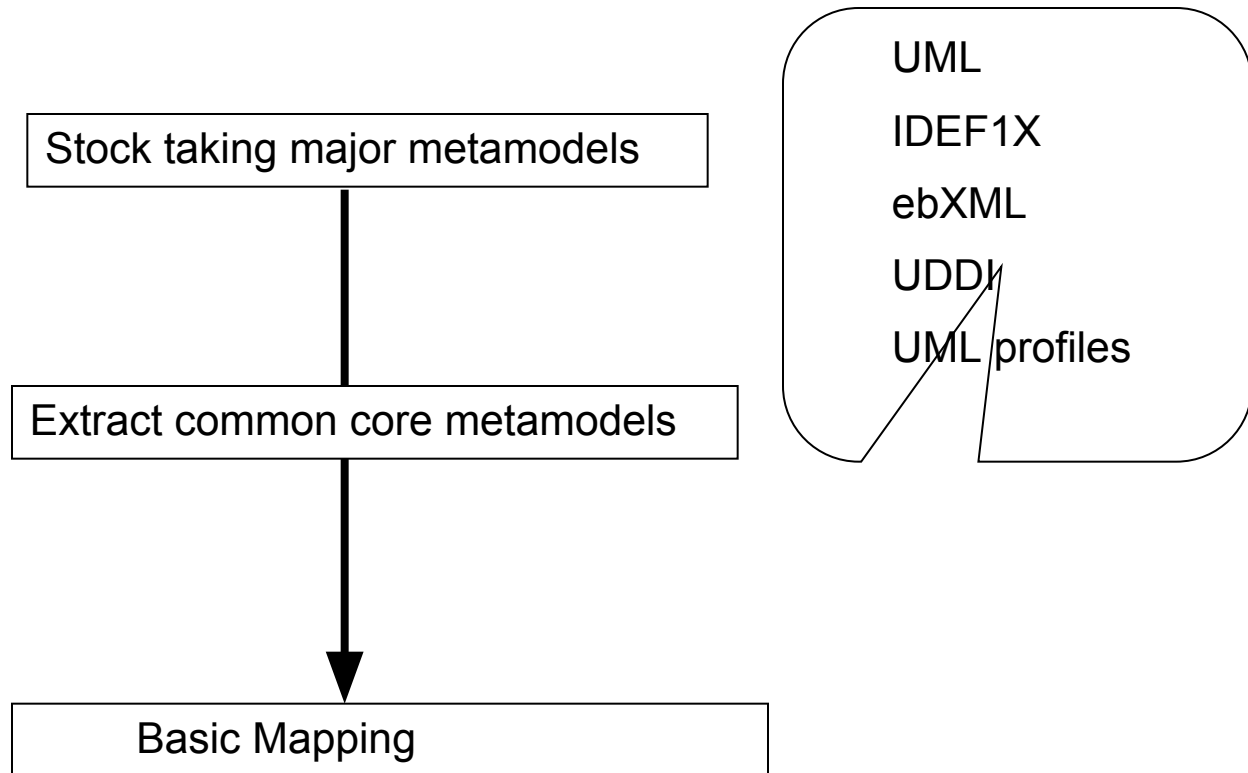
Metamodel for Mapping

Metamodel for Modeling constructs

Metamodels for Ontologies and Terminologies

Linkage to Business Transaction Semantics

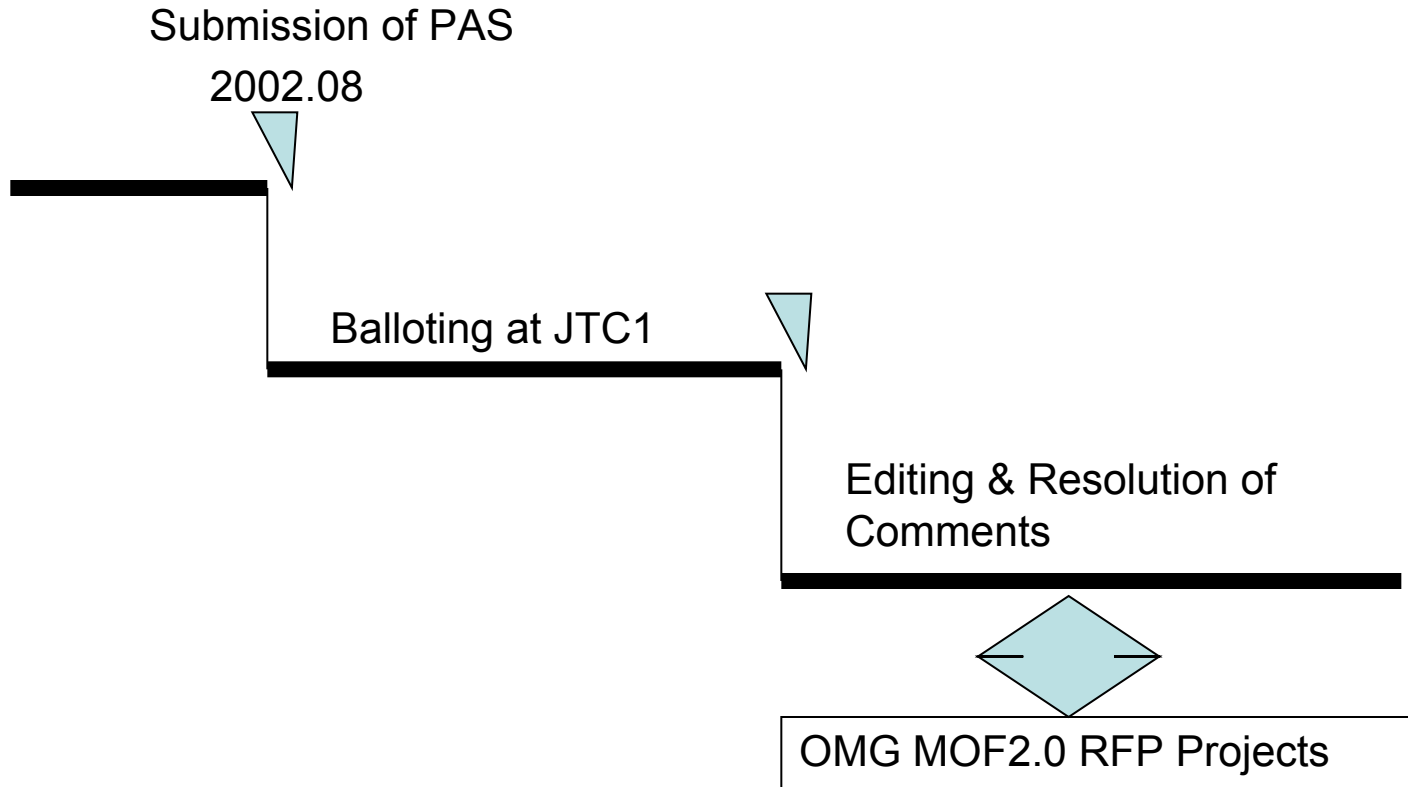
How to proceed the standardization of the Overall Framework



MOF2.0 Project in OMG

- OMG issued those 7 RFPs on the MOF
 - MOF20 Core
 - XMI for MOF20
 - MOF20 to CORBA IDL Mapping
 - MOF20 to Java Mapping
 - MOF20 Versioning and Life Cycle Management
 - MOF20 Query/View/Transformation (Oct.2002)
 - MOF20 Federation/Facility/Directory

MOF/XMI PAS Schedule



Schedule

- MM Framework : WD
CD
- MM for Mapping : WD
CD
- MM for Modeling Constructs:
- MM for Identification & Classification

Metamodel for Ontology as a sub project of NWI

- Metamodel for Ontology Defining Facility
- Metamodel for Basic Ontology
- Metamodel for Domain Specific Ontology
- Mapping between Ontologies
- IS or TR?