

MoTMoT : a template-based Model to Model Transformer

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Key definitions

MDR (MetaData Repository)

Repository of model elements.

JMI (Java Metadata Interface)

Access to MDR.

XMI (XML Metadata Interchange)

Storage and exchange of (meta)models.

SDM (Story Driven Modeling)

Modeling transformations.

MDR

- Supports serialization to XMI
- MOF 1.3/1.4 compliant (UML 1.x meta-model can be used)
- Provides automatic implementations at run-time **OR**
- Custom implementations
- Alternative: EMF (Eclipse Modeling Framework)

- Provides access to model elements
- RefClass (Proxies): providing factory methods to create new instances
- RefObject: remove model elements

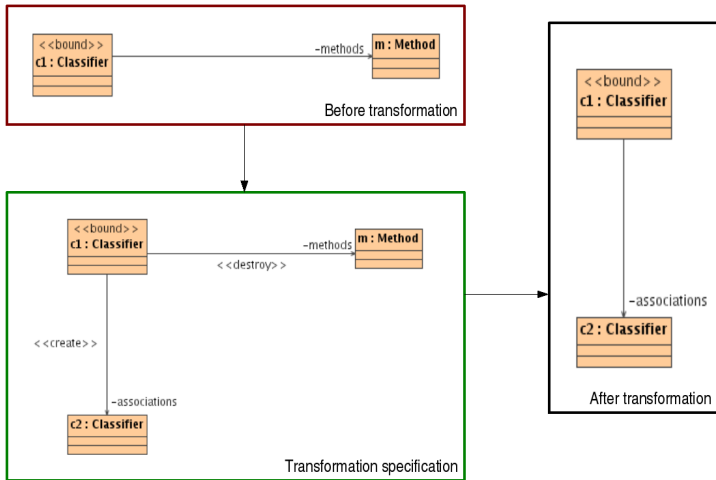
XMI

- Many UML drawing tools provide XMI support: interchange of models
- Takes advantage of XML: compliance checking (DTD, XML Schema, ...), readability

SDM

- Visual transformation language
- Graph-based: create and remove links (edges) and model elements (nodes)
- MoTMoT only shows manipulated subgraph, other elements are omitted

SDM example



How it all comes together

