

AtlanMod MegaModel Management (AM3)

A generic and extensible metamodel-agnostic tooling dedicated to megamodeling



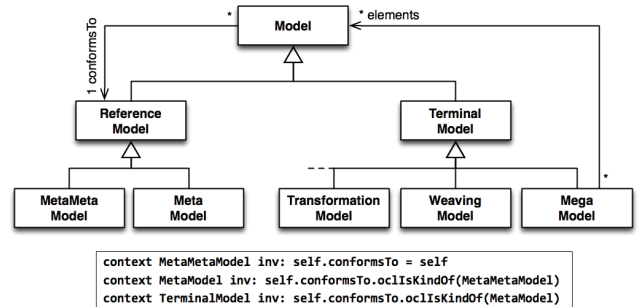
- ▶ Website: <http://www.eclipse.org/gmt/am3>
- ▶ Forum: <news://news.eclipse.org/eclipse.am3>

- ▶ Provider: AtlanMod Team (INRIA & EMN)

Modeling in the Large

AM3 is intended to provide support for **modeling in the large**, i.e. **managing global resources** in the field of **Model-Driven Engineering (MDE)**, basing the approach on the concept of a **megamodel**. These resources should be able to be accessed and used without increasing the accidental complexity of **MDE**. Thus, AM3 offers a generic and extensible way to create, store, view, access and modify **the metadata on all the global entities** (e.g. **models**) that may be involved in developing a complete solution.

Megamodeling Framework



A Global Model Management (GMM) Prototype

Basic Principles

- **Megamodeling**: representing references to models and relationships between them as a model called a **megamodel**
- Deal with a high number of **complex** and **heterogeneous** modeling artifacts
- Use a **megamodel** as a **metadata repository** on all these artifacts
- Provide facilities to create, handle, manage and use the megamodel

Potential Use Cases

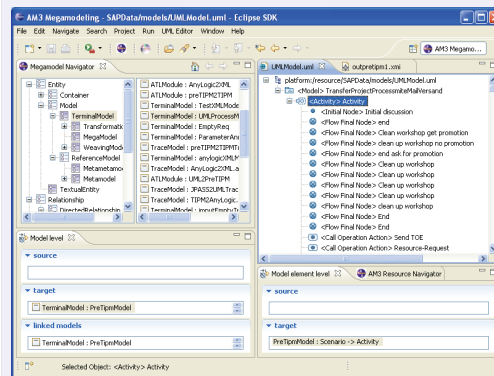
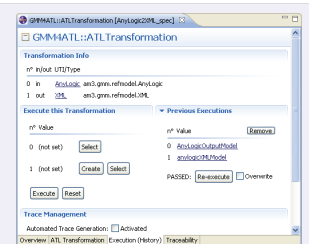
- Management of model transformations (single and composite)
- Management of Domain-Specific Languages (DSLs) and related artifacts
- Inter-model navigability/traceability
- Cartography of complex systems
- Management of software developments
- etc

Example AM3 Environment Features

The generic AM3 editor dedicated to **transformation execution**

Support for:

- Execution specification
- Execution effective launching
- Automated traceability
- Execution recording



The generic AM3 environment dedicated to **inter-model navigability**

Support at:

- **Model-level**
- **Model element-level** (combined with model weaving)

Contact Us

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Websites: <http://www.emn.fr/x-info/atlanmod>
<https://www.modelplex.org/> (MODELPLEX Project)

Related Projects

Eclipse-M2M ATL: <http://www.eclipse.org/m2m/at/>

Eclipse-GMT AMW: <http://www.eclipse.org/gmt/amw/>

Eclipse-GMT MoDisco: <http://www.eclipse.org/gmt/modisco/>