METIS
An Open Architecture Toolkit

ADM and ADML support

Don Hodge
Principle Knowledge Engineer, Computas NA
dhodge@computas.com
“...address the growing demand in industry and government for better ways to structure, secure and reuse knowledge and experience,

by offering services and solutions for computer supported knowledge management,

enabling our customers to develop efficient, knowledge-driven work behavior in their organizations
METIS – an Open Toolkit

- METIS uses **XML** as its basic storage and exchange format. That means that other XML tools can read METIS models if they have access to METIS’s DTD (data type definition).
- That also means that METIS can read and visualize **non-METIS XML-documents and data** if the corresponding DTD is known to METIS as a template.
- METIS is a **Web-based** tools where each object has its unique URI (http-address) and models can be stored on Web-servers and accessed directly over Internet or Intranets.
METIS and Architecture Planning

- METIS has developed a specific Template for this area, called "IT Management", ITM
- METIS is extensively used for Enterprise Architecture Planning and Business and IT Strategy alignment
- METIS is an Enterprise and Knowledge Modelling tool that can model any aspect of an Enterprise and visualize how these aspects are related
Business Architecture

- Baseline of current business architecture
- Baseline technical description of current IT system in native terms
- Baseline of current architecture in TOGAF terms
- Baseline technical description of current IT system in TOGAF terms
- Business requirements and key system and architecture drivers
- Business return given required changes
- Candidate architecture building blocks list
- Candidate architecture building blocks models
- Candidate solution building blocks list
- Candidate solution building blocks models
- Relevant business process descriptions
- Assumptions
Architecture representations in METIS

Architecture - Concepts

Component specific design rules
- Design rule - component-specific

Architecture design rules
- Design rule - application
- Design rule - template

Project-specific architecture
- Specific architecture

Architecture domains (areas)
- Application area
- Datastore area
- Technology area

Architecture template
- Logical application
- Logical component
- Logical datastore

Logical element inventory
- Logical application
- Logical datastore
- Logical technology component

Products
- Application product
- Technology product

Implemented Architecture
- Application
- Datastore
- Technology component
Impact Analysis

- **Project list**
  - Name, description and objectives of each impacted project
  - Prioritized list of impacted projects to implement the proposed architecture

- **Time oriented migration plan**
  - Benefits of migration, determined [including mapping to business requirements]
  - Estimated costs of migration options

- **Implementation recommendations**
  - Criteria measures of effectiveness of projects
  - Risks and issues
  - Solutions building blocks - description and model
ADML Constructs and model in METIS
METIS and ADML

- METIS’s meta modelling capabilities makes it simple to define a METIS meta-model that mirror the ADML DTD.
- METIS visual capabilities allow us to add semantic to the ADML constructs and apply symbols that make it easy to use and reflects corporate modeling flavours.
- The ADML model data will be stored in its own XML-files consistent with the ADML syntax, directly accessible for use of other tools (no export/import).
- Vice versa, METIS can directly read ADML files generated from other tools and interpret and visualize the data as a METIS model.
Status on ADML support in METIS

- We have already implemented an ADML template as a Proof-of-Concept.
- We need to test out the template in real customer engagements and improve the semantic and symbolic representation.
- We plan to include the ADML domain in our domain library and integrate it into ITM and other METIS Templates.
- ADML XML will be supported by METIS as one of our “own” file formats.