Business Capability Modeling
Developments of Meta-Modeling Side

Philipp W. Kutter, CEO
Capability Modeling Metamodel - Developments

- 2007 Montages has developed for Peter Brunner and Christian Meier of UBS the Capability Modeling Metamodel using ECore+OCL.
- Since then, Metamodels of ISO 20022, XBRL, and BIAN have been standardized and aligned.
- Philipp Kutter has joined the TC68 WG4 and 5 as Swiss Expert, to provide synergies between open standards and open source modeling tools for the business layer of ISO20022.
- Eclipse Tooling Issues for diagramming editor has been solved:
  - A leading Swiss banking solutions company sponsors the GMF Tooling project with 3 Full Time Employees longterm.
  - GMF Tooling has just merged with GMF Simple Map to provide very simple creation of diagram editors.
    (see their talks on Eclipse Con USA and Europe)
GMF Tooling 3.0

Model Driven Architecture approach to domain of graphical editors

By defining a tooling, graphical and mapping model definition, one can generate a fully functional graphical editor in Eclipse.

Actually targeting GMF Runtime platform. Support for Graphiti and Web platforms coming soon.

Current Status
10 October 2012: GMF-T 3.0.1 SR1 is released as part of Juno SR1
27 June 2012: GMF-T 3.0 is released as part of Juno Simultaneous release
21 June 2012: GMF-T 3.0 Review for Juno Release declared successful
12 June 2012: GMF-T Declared its RC4 build for Juno Release
31 May 2012: GMF-T Declared its RC2 build for Juno Release
23 May 2012: GMF-T Declared its RC1 build for Juno Release

New and Noteworthy
N&N for GMF-T 3.0 at the Wiki

Roadmap
Project Plan for Juno Release

Team News
24 May 2012: Voting for new committers: Guillaume Hillairet and Svyatoslav Kovalsky has successfully concluded.
GMF Simple Map (now part of GMF Tooling)

Simple Map Diagram Definition

Resulting Diagram Editor

EclipseCon Europe 2012 Talk, 25.October:

GMF Simple Map Editor

Session Type: 35 minutes

Speakers:

Andreas Ahrens (Deutsche Telekom), Jonas de Vis (IBM Germany)

GMF Tooling is a very powerful tool, but sometimes its learning curve makes it hard to create or maintain a GMF diagram. Because the process of creating a GMF diagram is iterative rather than linear, in the first iteration, you probably don’t want to spend too designing figures. You only want to see your diagram working as quickly as possible, and later customize it.

In order to simplify the development process of the GMF Tooling models needed to generate a Diagram, we have created a graphical tool (based on GEF) to allow us to create a complete GMF diagram in a few minutes in a much more intuitive way.
Example 1: Capability Modeling Metamodel – Concepts

- Capabilities build a hierarchy
- Value chains connect capabilities to sequences of capabilities
- Further kind of capability connections are hierarchical controls and resources
Example 2: Capability Modeling Metamodel – Business Rules

- Main question: which value chains are involved with a capability.
- Rule: all value chains, which include the capability
- Business Rules Editor: simple way to define the rule
- OCL to define exact meaning: concrete syntax, details on handing of invalid values, e.t.c.
Capability Modeling Metamodel - Conclusions

- Original metamodel of Capability Modeling still valid after 5 years
- OCL is great to define business rules using modeling standards.
- However, if you want to agree on business rules with Business Experts you must eliminate any requirements to:
  - deal with invalid values (null pointer, etc.)
  - deal with conversion from unary to collections
  - learn any textual syntax (including the original OCL syntax)
  - manually propagate model-restructuring into rules
- You also need to provide guidance on how to structure a rule
- In other words:
  You need what every main-stream Business Rule Management system provides you as tool support for entering business rules.