Capella: Useful Additions

Document Generation with M2Doc
Collaboration with Team for Capella

Capella Day 2017 – Toulouse
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**Capella** Open-sourced in 2015

**Requirements**
- Interoperate with Req. Mgt. Tools
- Import/export Requirements

**Document Generation**
- Excel Import/export
- Generate HTML reports
- Generate rich documents

**Multi-User Collaboration**
How can we efficiently collaborate on a single Capella model?
Requirements

- Interoperate with Req. Mgt. Tools
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Document Generation

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Multi-User Collaboration

How can we efficiently collaborate on a single Capella model?

M2Doc

Rich document generation from Capella models

Team for Capella

Real-time collaborative editing of Capella models with fine-grained lock management
M2Doc – Why documents?

• Written Documents are still necessary
  – To transmit information to people who will not use Capella directly
  – To fulfil certain obligations

• The Model should be the reference
M2Doc – Basic Principles
M2Doc – Basic Principles
M2Doc – Basic Principles

Model

M2Doc

Template C

Document C
M2Doc – Involved Roles

**Metamodel Expert**
- Creates, tests and debugs reusable AQL services
- Registers services

**Templatist**
- Creates M2Doc templates
- Uses AQL services
- Tests and debugs templates

**End-User**
- Produces documents by running M2Doc templates
- Enters and maintains ‘user text’ in generated documents

These are just roles

Can be 1, 2, or 3 persons depending on complexity, organization, and context
Generating rich Documents

M2DOC – DEMO
M2Doc History

CASID/DGSIC
(French Department of Defense)
M2Doc – Roadmap

- Open-Source (https://github.com/ObeoNetwork/M2Doc)
- Currently under development
- V1.0 targeted in October 2017
  - Stabilization of current features
  - Compatibility with Capella 1.1+
  - Ease of use (documentation, wizards, ...)

- Later: collect feedback and improve!
M2Doc – Keypoints

• Produces MS Word™ documents from Capella Models (or any model)
• Can include Capella Diagrams & Tables
• Simple Syntax and Ease of Use
• Incremental Generation
• Templates in MS Word™ directly
• Usable error reporting
Collaborating on Capella Models

TEAM FOR CAPELLA
Team for Capella – Collaborate?

• Why?
  – To get rid of file sharing problems

• How?
  – Use a shared repository
  – Manage locks at model element granularity
  – Make locks and update mechanisms automatic
Team for Capella - Principles
Team for Capella - Principles
Team for Capella - Principles

v1
v2
v3

Checkin
Team for Capella - Principles
Team for Capella - Principles
Team for Capella - Principles
Team for Capella - Keypoints

• Collaboration on a centralized model stored in a database
• Real-time edition and change propagation
• Fine-grained locking prevents conflicts
• Commercial offer by Obeo
• Not intended to replace configuration management
THANKS