Capella: Useful Additions

Document Generation with M2Doc
Collaboration with Team for Capella

Capella Day 2017 – Toulouse

Laurent DELAIGUE

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?

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Multi-User Collaboration

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M2Doc

Rich document generation from Capella models

Team for Capella

Real-time collaborative editing of Capella models with fine-grained lock management
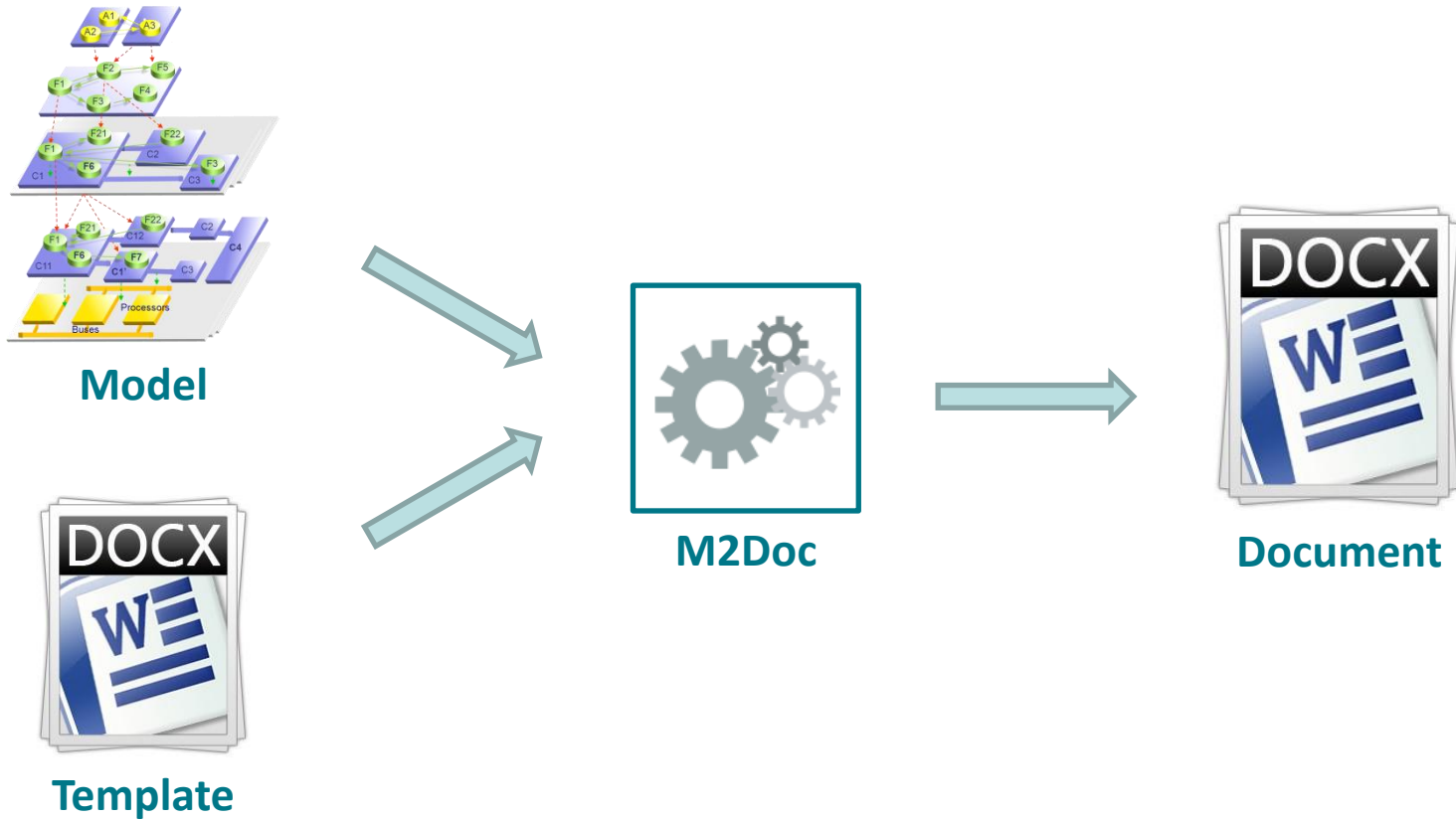
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Generating rich Documents

M2DOC

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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**
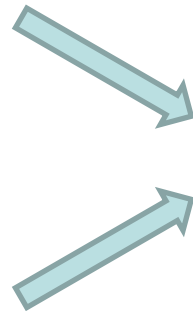
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M2Doc – Basic Principles

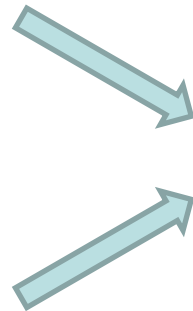**Model**

Template

M2Doc

Document

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M2Doc – Basic Principles

Model

Template

M2Doc

Document

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M2Doc – Basic Principles

Model

Template C

M2Doc

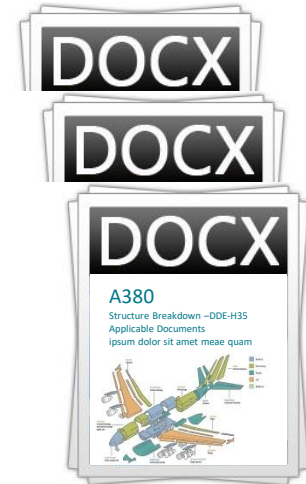**Document C**

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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

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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!

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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

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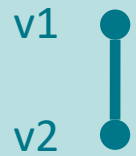*Collaborating on Capella Models*

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
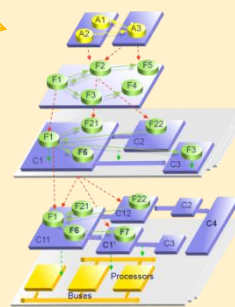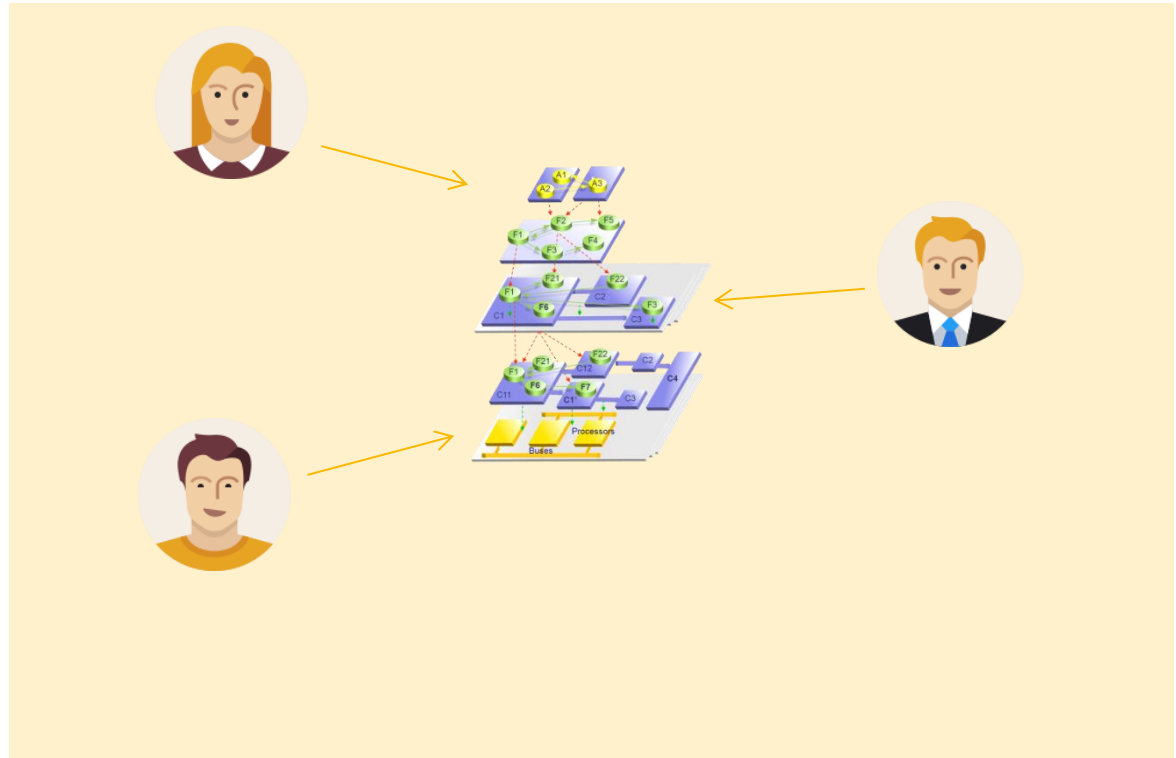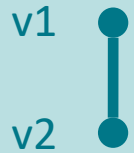
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Team for Capella - Principles

v1 ●
|
v2 ●

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Team for Capella - Principles

v1

v2

Checkout

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Team for Capella - Principles
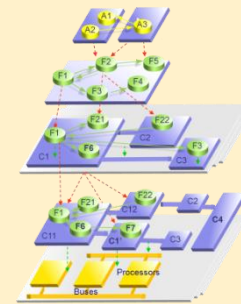
v1

v2

OBEO

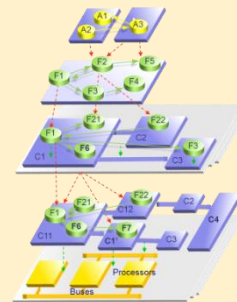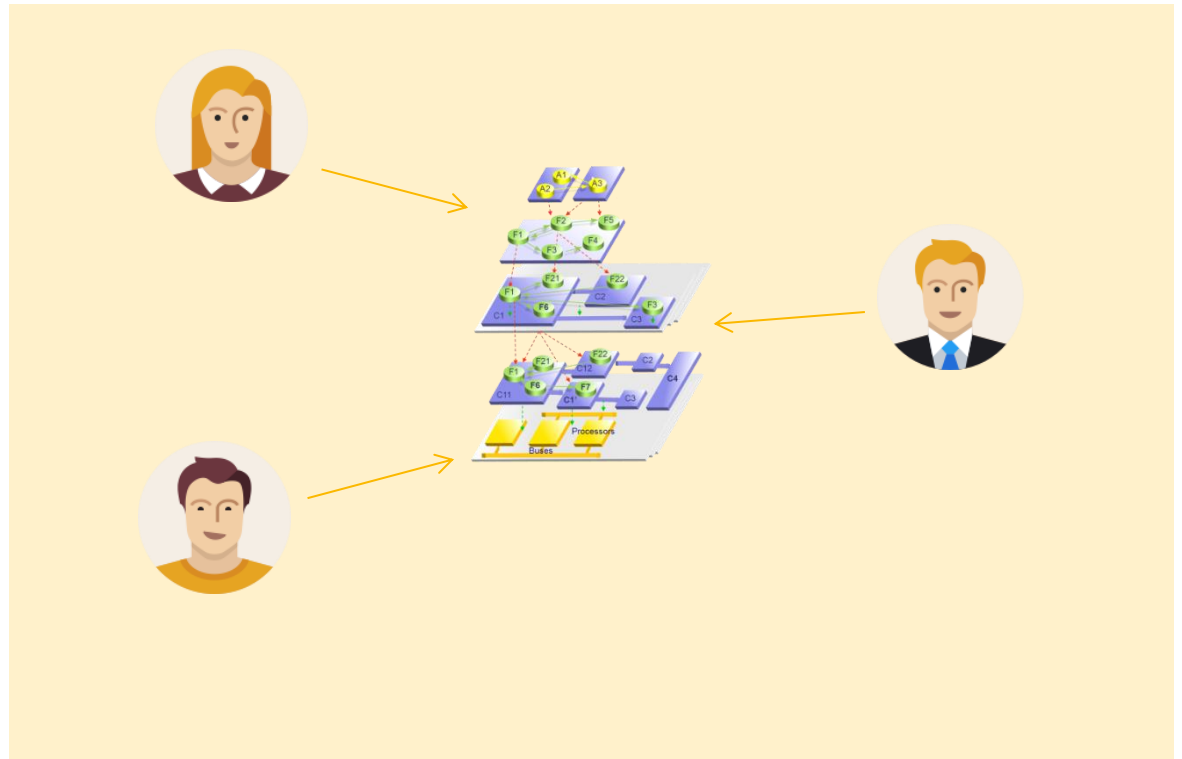# Team for Capella - Principles

v1

v2

v3

Checkin

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Team for Capella - Principles
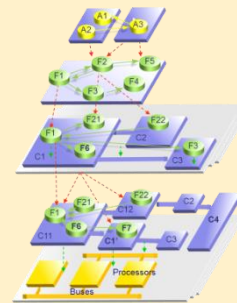

v1

v2

v3

Checkout

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Team for Capella - Principles

Team for Capella - Principles

v1

v2

v3

Checkin

v4

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Collaborating on Capella Models

TEAM FOR CAPELLA – DEMO

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

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THANKS