



Team Collaboration and Document Generation

Capella Day – 13 March 2018 – Stuttgart

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Capella Open-sourced in 2015

Requirements

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

Multi-User Collaboration

How can we efficiently collaborate on a single Capella model?

Document Generation

- Excel Import/export
- Generate HTML reports
- Generate rich documents



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Team for Capella

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

M2Doc

Rich document generation from Capella models



Collaborating on Capella Models

TEAM FOR CAPELLA

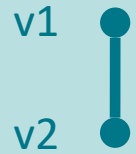


Team for Capella – Collaborate?

- Why?
 - To get rid of file sharing problems:
 - Locks
 - Complex comparisons and reconciliations
- How?
 - Use a shared repository
 - Manage locks at model element granularity
 - Make locks and update mechanisms automatic



Team for Capella - Principles



v1
v2

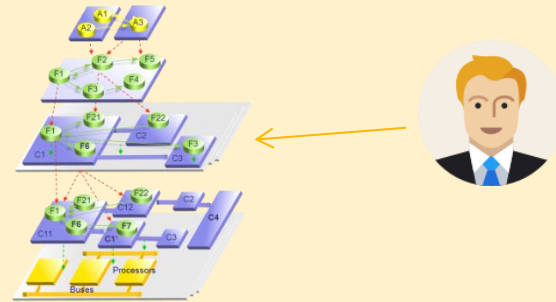


Team for Capella - Principles

v1

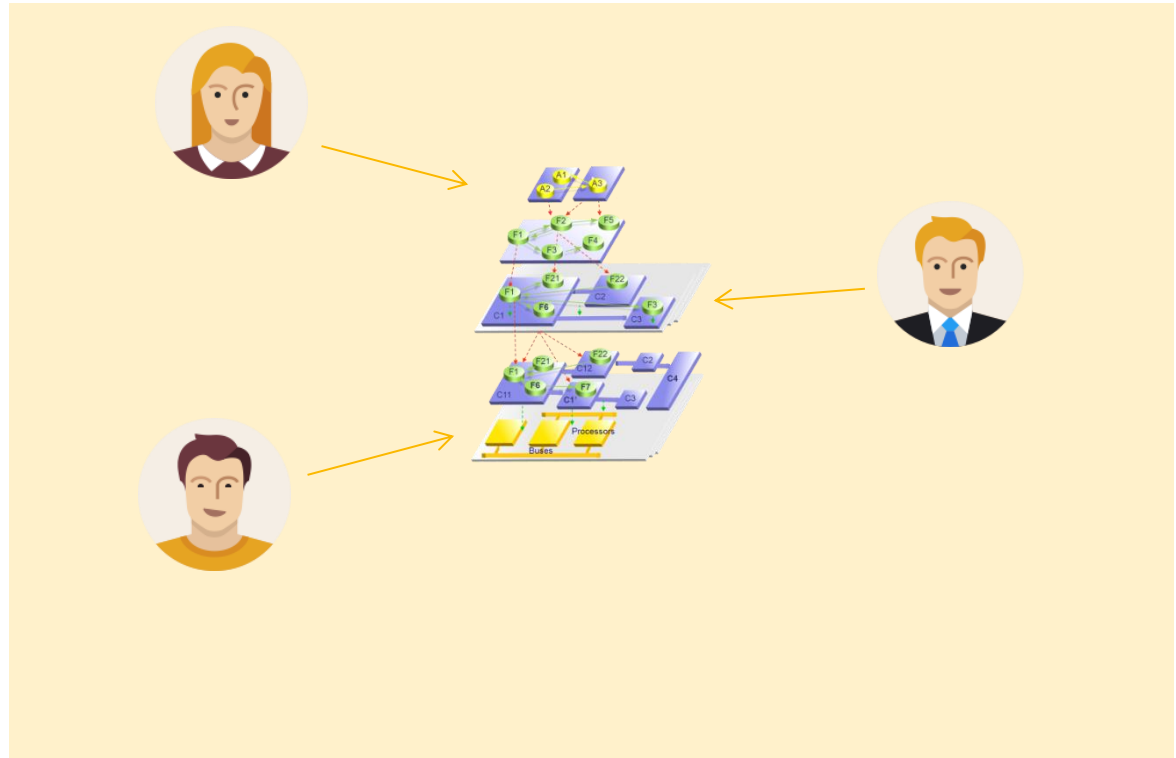
v2

Checkout



Team for Capella - Principles

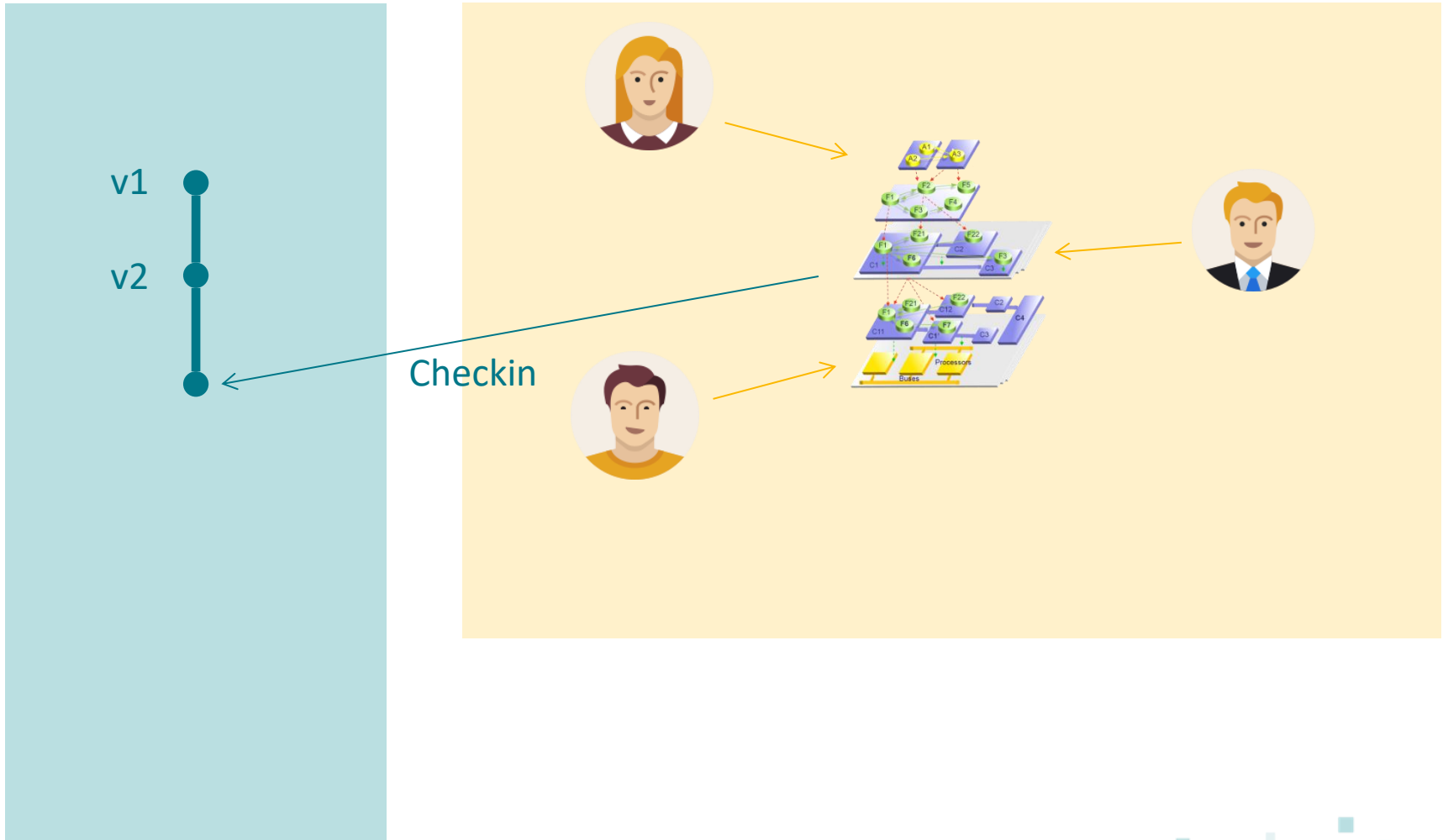
v1 ●
v2 ●



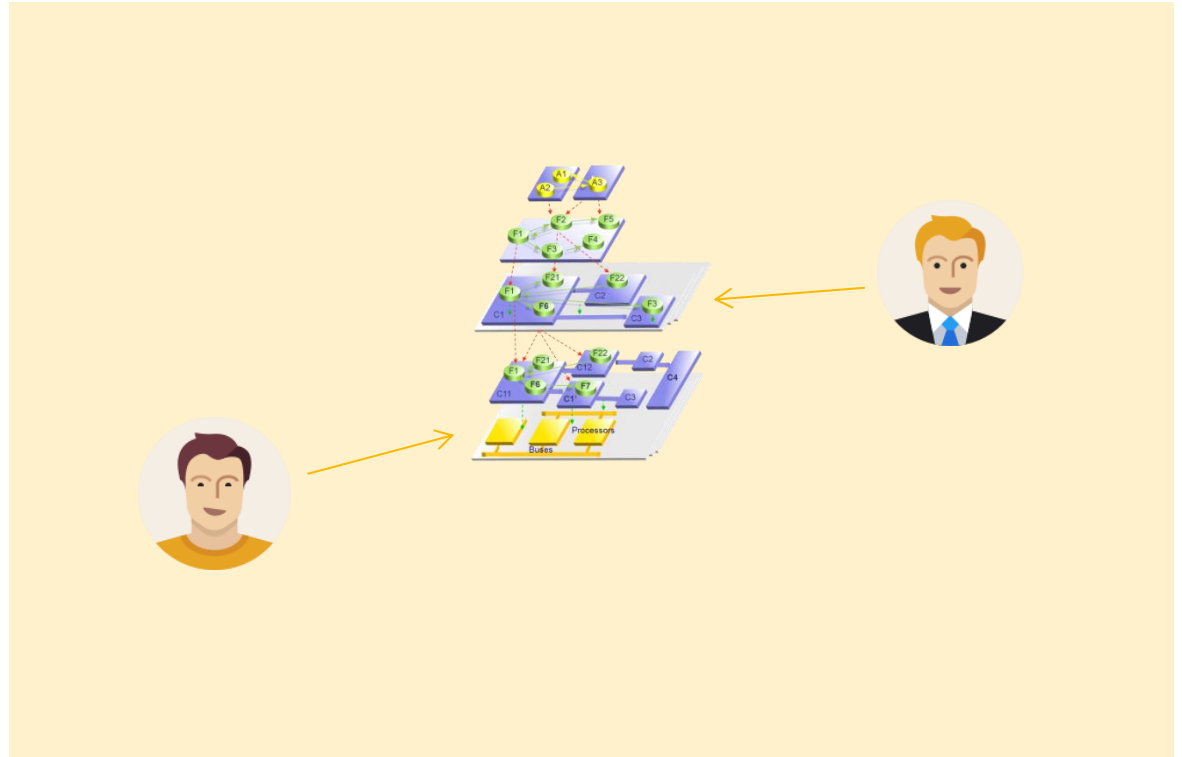
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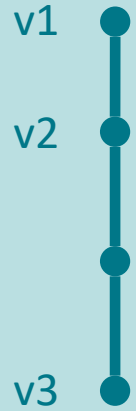
Team for Capella - Principles



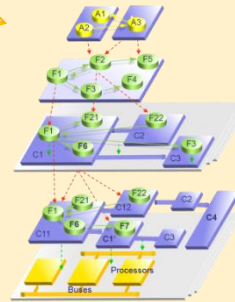
Team for Capella - Principles



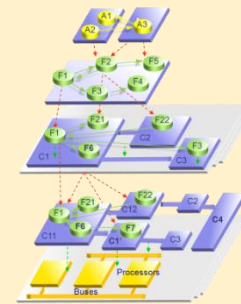
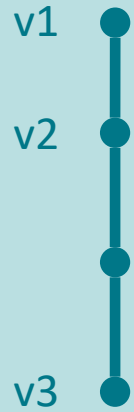
Team for Capella - Principles



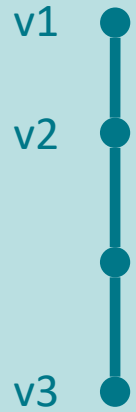
Checkin



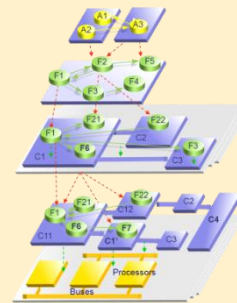
Team for Capella - Principles



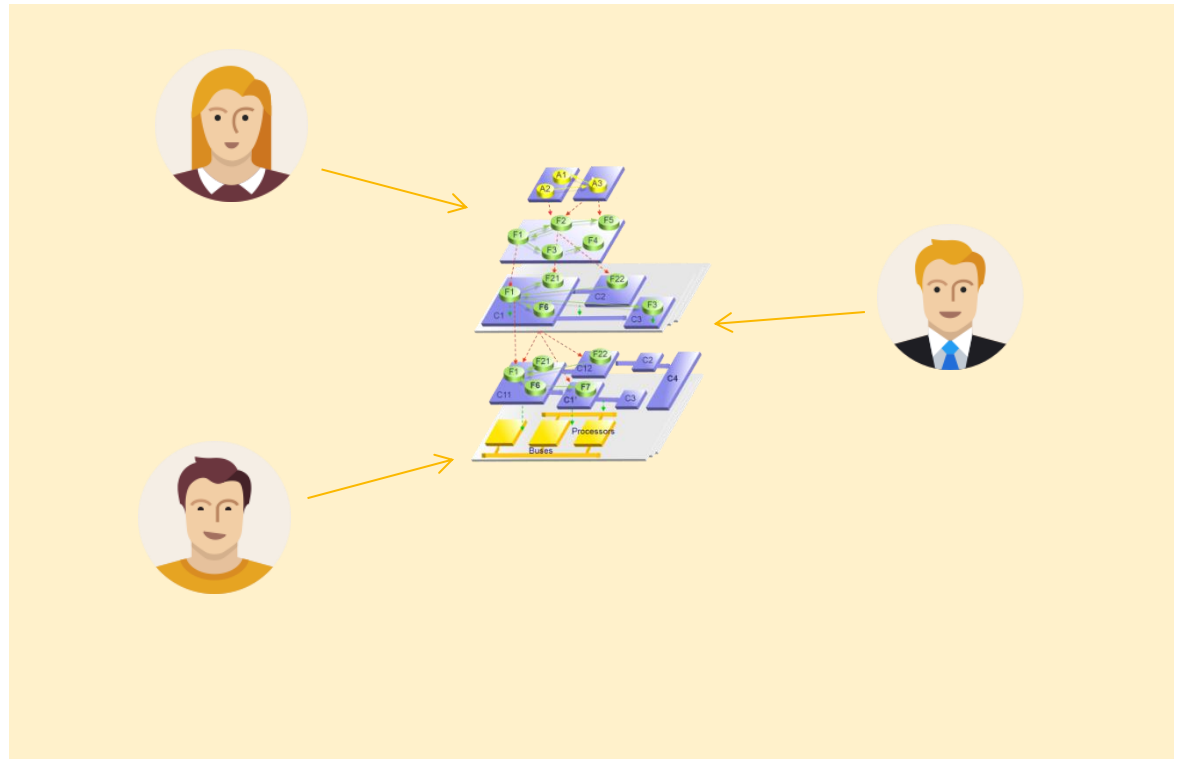
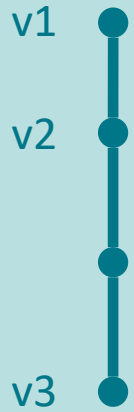
Team for Capella - Principles



Checkout



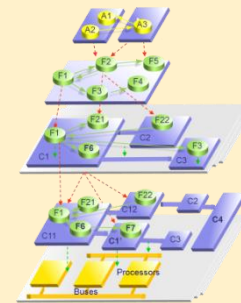
Team for Capella - Principles



Team for Capella - Principles

v1
v2
v3
v4

Checkin



Collaborating on Capella Models

TEAM FOR CAPELLA – DEMO



Team for Capella – Roadmap

- <https://www.obeo.fr/en/capella-professional-offer>
- Current versions: **Team for Capella 1.1.3, 1.2.0**
- Near Term: **Team for Capella 1.1.4, 1.2.1**
 - 1.1.4 end of March
 - Numerous bug-fixes, durable lock improvements, xmi:id management deactivable
 - 1.2.1 beginning of April
 - Improved server management (WebServices)
- End of 2018
 - v1.3.0 for Capella 1.3
 - More server management improvements



Team for Capella - Keypoints



Live Collaboration

Simultaneously work
with others,
See their modifications
dynamically



Time Saved

Forget about conflicts!
Objects are
automatically locked
and released



Standard Data Access

Models and diagrams
remain accessible
Data can be exported
via standard file
format or open API

Not intended to replace configuration management

Commercial offer by Obeo

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Generating rich Documents

M2DOC

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M2Doc – What For?

- Written Documents are **necessary**
 - To transmit information to people who will not use Capella directly
 - To fulfil certain obligations
- The Model should be the **reference**
- Documents can **support**
 - Model Analysis,
 - Review preparation,
 - Etc.



M2Doc History

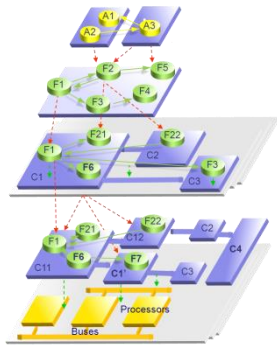


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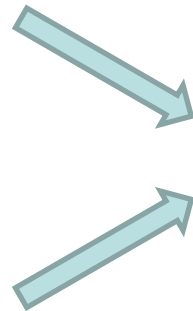
M2Doc – Basic Principles



Model



Template



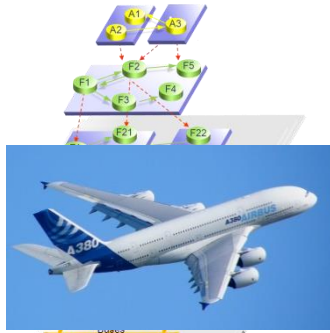
M2Doc



Document



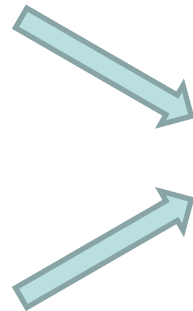
M2Doc – Basic Principles



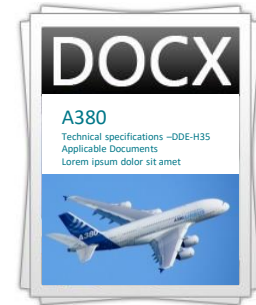
Model



Template



M2Doc



Document



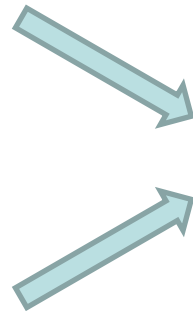
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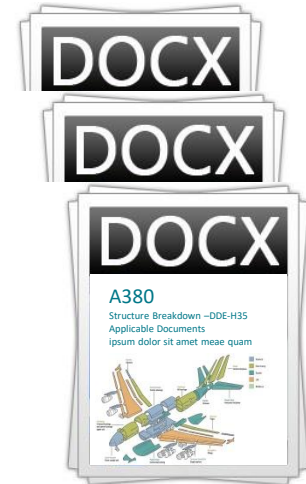
Model



Template C



M2Doc



Document C



M2Doc – Involved Roles

End-User

- Produces documents by running M2Doc templates
- Enters and maintains 'user text' in generated documents

Template Author

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

Capella Expert

- Creates and tests reusable services
- Registers services

These are just **roles**

Can be 1, 2, or 3 persons or teams

depending on complexity, organization, and context

Template Author and *Capella Expert* can be sub-contracted

M2Doc – Added Value

- **Ease of use**
 - Both for the end user and the templatisit
- **Maintainability**
 - Powerful and reliable error reporting
- **Performance**
 - Hundreds of pages in seconds
- Can be used in automated workflows



Generating rich Documents

M2DOC – DEMO



M2Doc – Roadmap

- Official site: <http://www.m2doc.org/>
- Open-Source **EPL v1.0** license
- Current status: **M2Doc v1.1.0 (Jan. 2018)**
 - Compatible with Capella 1.1.x *and* Capella 1.2.x
 - Dedicated tutorial at <http://www.m2doc.org/capella/>
 - One release every 3 months
- V1.2.0 in 2018
 - Priority: integration with Capella
 - Capacity to reuse fragment of templates
- **Funding is needed!**
 - Co-creation from the beginning



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
- Good performance



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