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A MERGE ENGINE AND APPLICATIONS FOR MODEL-BASED ENGINEERING



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"Merge" as a primitive operation

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"Merge" as a primitive operation

To realize features for model-based engineering

"Merge" as a primitive operation

To realize features for model-based engineering

Based on eclips MODELING FRANKWORK

- "Merge" as a primitive operation
 - To realize features for model-based engineering

- Based on entry emf
- Especially related to
 - Collaboration
 - Reuse



Project Contents

An engine tailored for the project vision Diff/merge engine OPEN

This document may not be re-

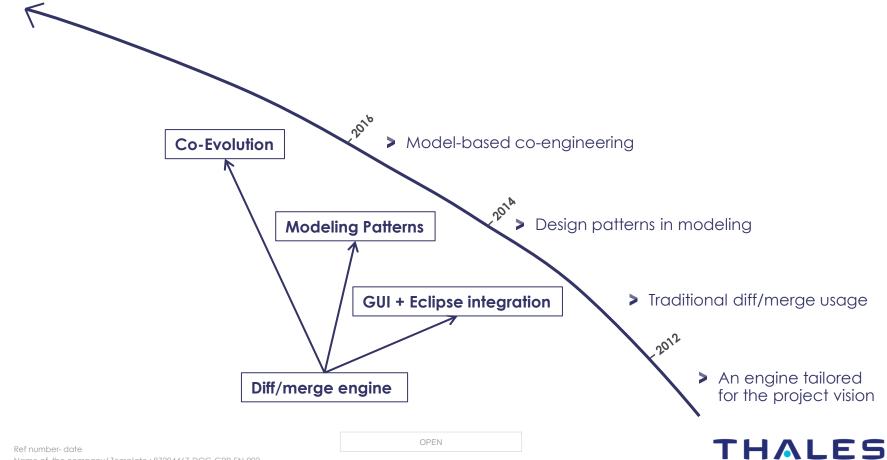
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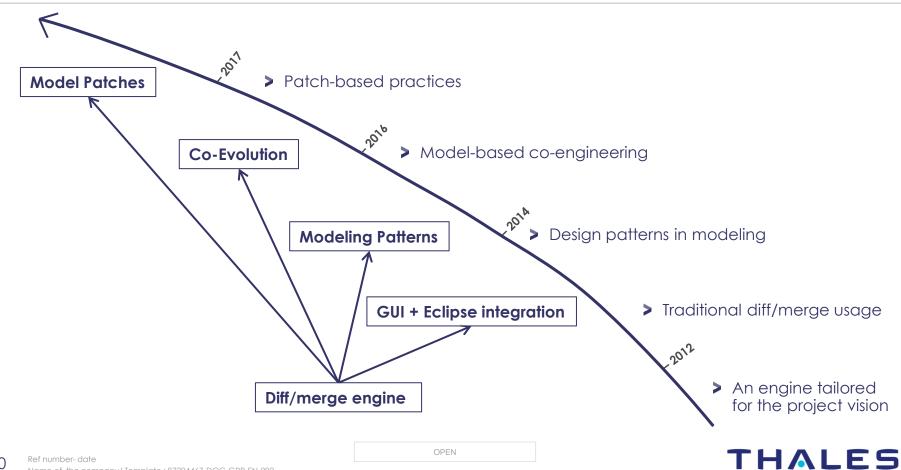
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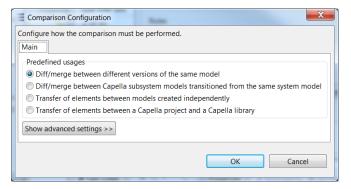
Project Contents

> Traditional diff/merge usage GUI + Eclipse integration > An engine tailored Diff/merge engine for the project vision THALES OPEN

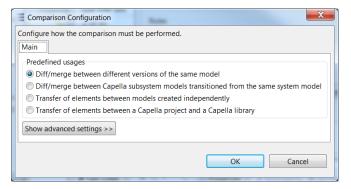




- Predefined use cases
 - Version control
 - Opportunistic reuse



- Predefined use cases
 - Version control
 - Opportunistic reuse

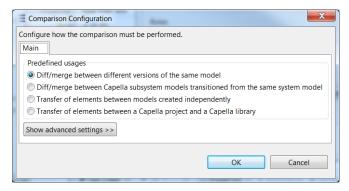


- Other use cases
 - Advanced configuration
 - Extendible per modeling tool



Predefined use cases

- Version control
- Opportunistic reuse

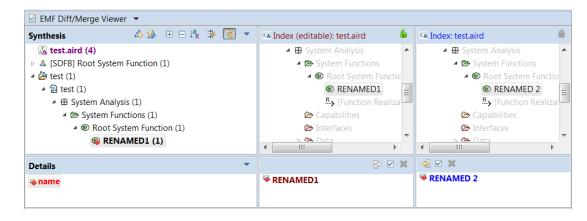


Other use cases

- Advanced configuration
- Extendible per modeling tool

Dedicated GUI

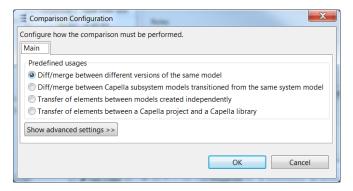
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Predefined use cases

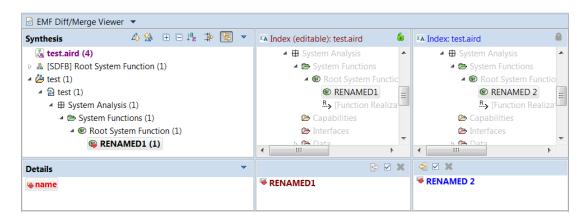
- Version control
- Opportunistic reuse



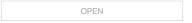
Other use cases

- Advanced configuration
- Extendible per modeling tool

Dedicated GUI



- + Integration with Local history, SVN, Git
 - Diagrams: extensions for GMF, Sirius





Engineering Patterns



Engineering Patterns

- Enforce design principles
- Share and disseminate know-how
- → Productivity and design quality



Engineering Patterns

Model-based Engineering

Modeling Patterns

- Enforce design principles
- Share and disseminate know-how
- → Productivity and design quality



Engineering Patterns

Model-based Engineering

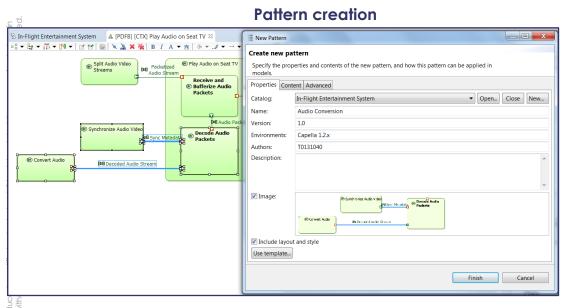
Modeling Patterns

- Enforce design principles
- Share and disseminate know-how
- → Productivity and design quality

- Formally
- With tool support
- Through Pattern catalogs



2) Modeling Patterns

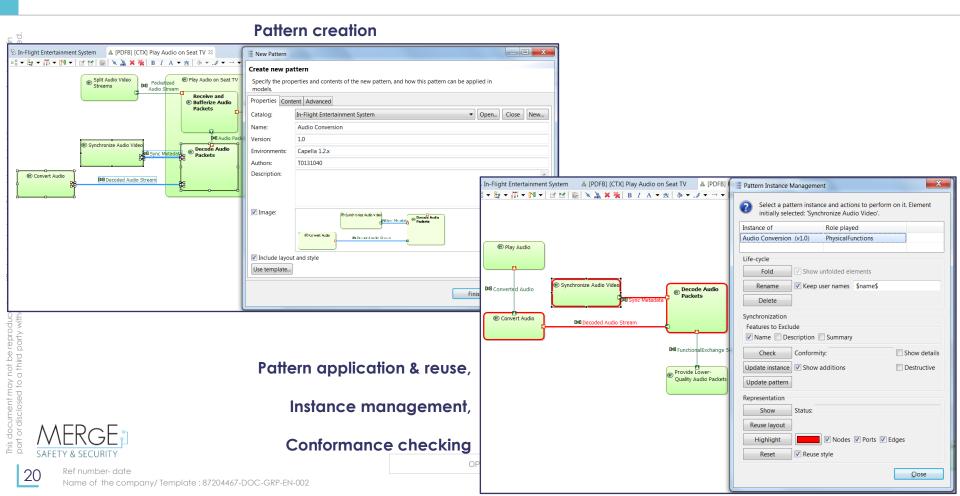


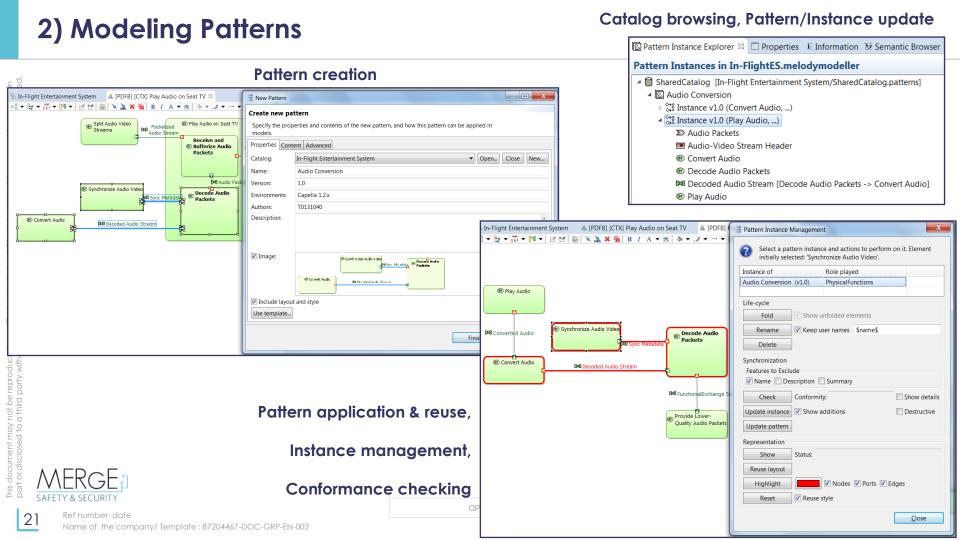




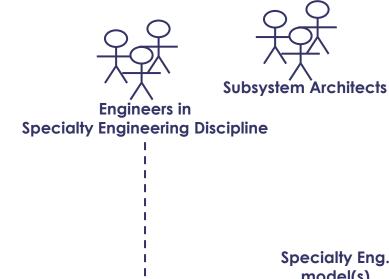


2) Modeling Patterns





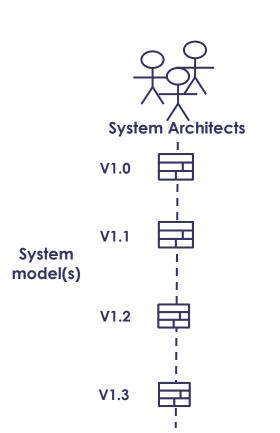
System Architects model(s)

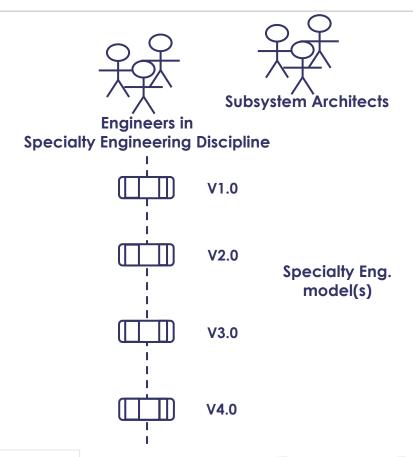


Specialty Eng. model(s)

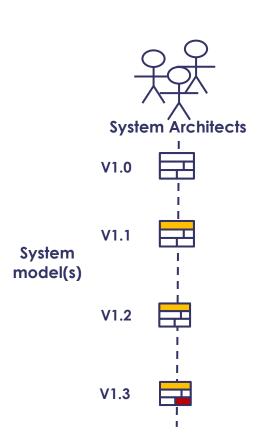
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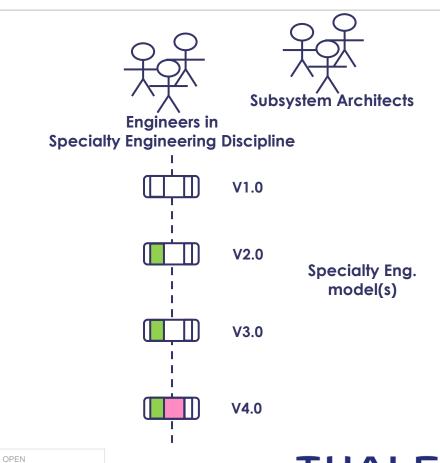
System

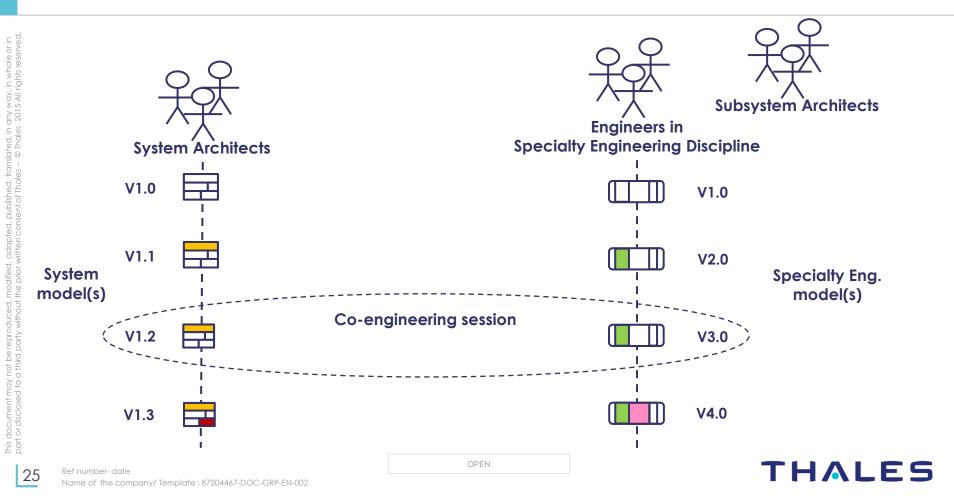


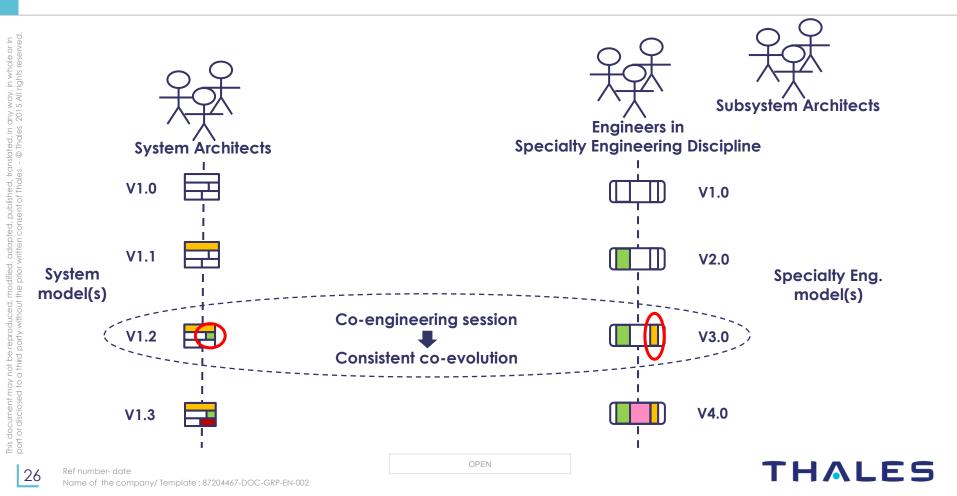


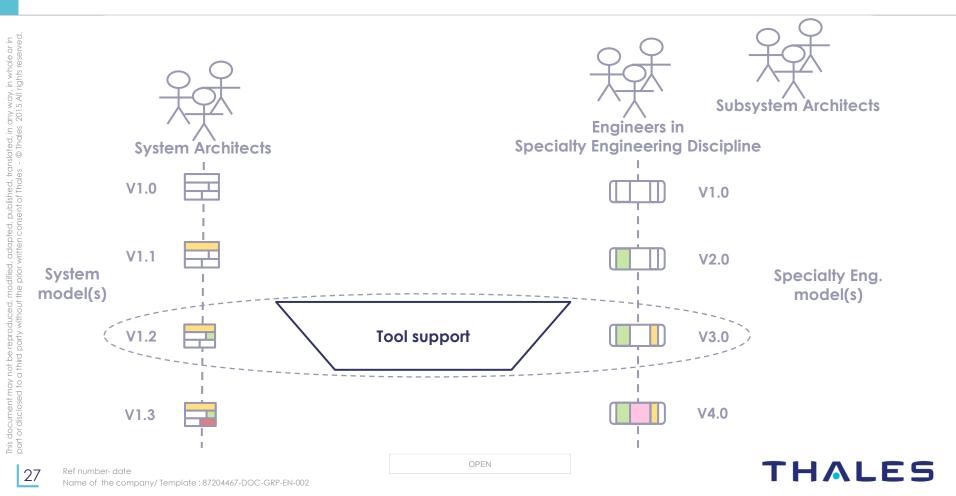
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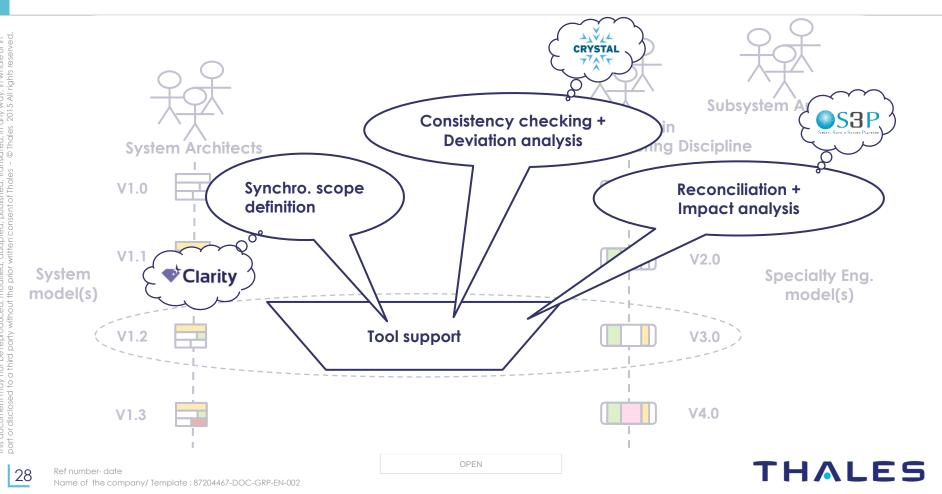


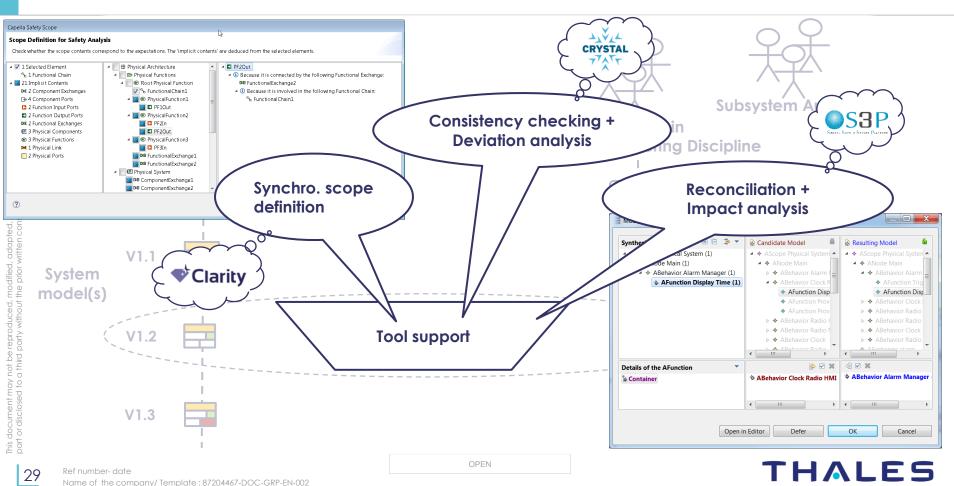




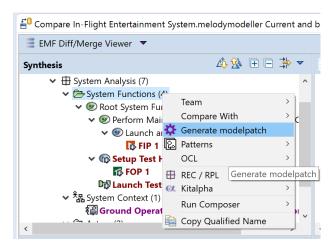








Compare models → Generate patch



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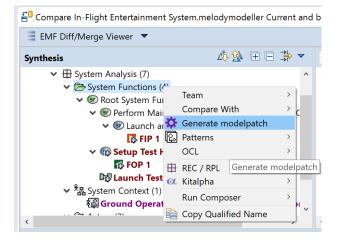


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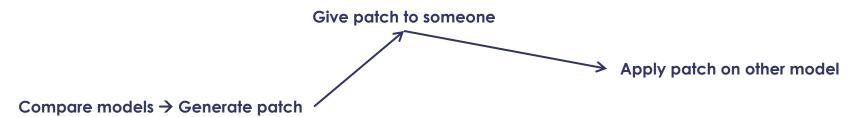
Give patch to someone

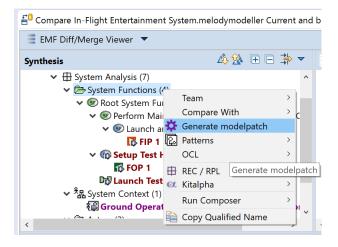
Compare models → Generate patch





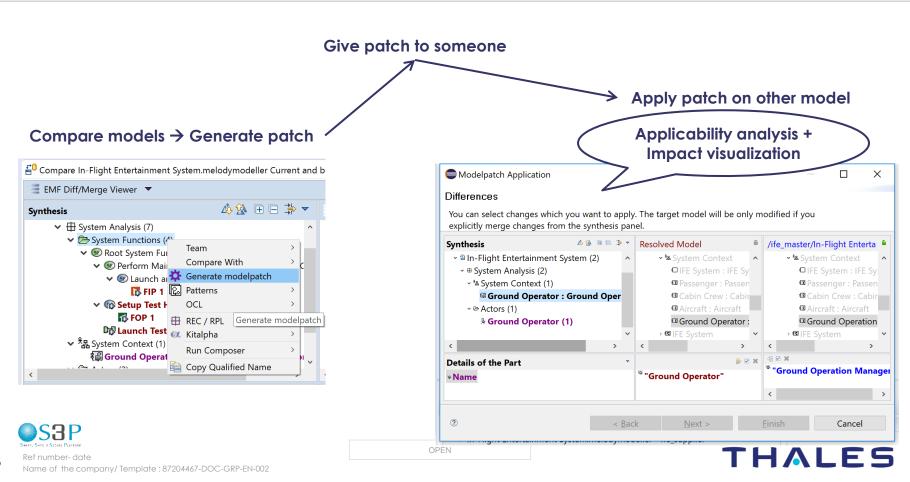














Known Ecosystem

CoFluent™ Studio







Products

Organizations













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Known Ecosystem

CoFluent™ Studio







Products

Organizations



+ Eclipse community: "Most Innovative New Eclipse Project or Feature" award @EclipseCon World 2013



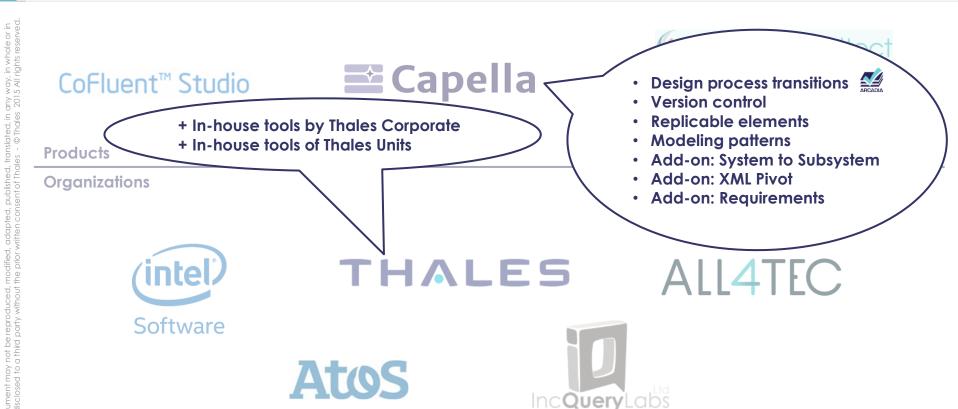
Atos



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Known Ecosystem – Thales Perspective



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http://wiki.eclipse.org/EMF_DiffMerge

- > Forum
- > Bug tracking
- Download
- Misc. information

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Thanks for your attention

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Log of changes and approval

Log of changes

Revisions	Description	Date
001	Initial version	2017 10 19
002	Slightly updated version	2017 10 24

Approval

Actors	Name and role	Signature	Date
Written by	Olivier CONSTANT, Thales Corporate Engineering		2017 10 19
Verified by			
Approved by			

