



# ReqCycle overview and demo

EclipseCon France 2013

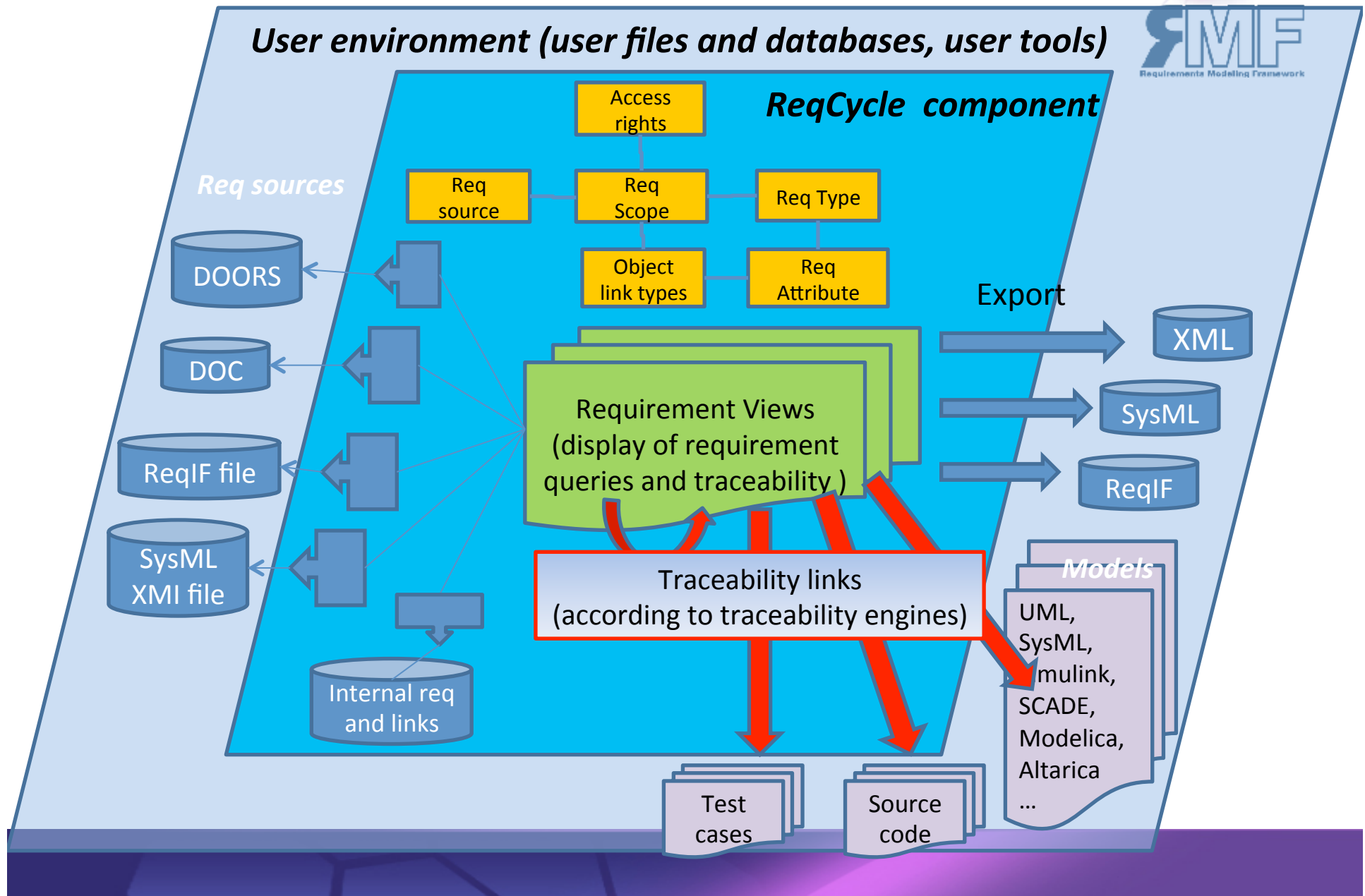
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# Why ReqCycle?

- Want to manage requirements (types, attributes, links, rights, ...) and link them with other requirements or model elements, code or anything...
  - DOORS? No link with model elements
  - SysML ? No link with requirements from DOORS or with model elements from other languages (Scade, Simulink, Altarica) or with code or other sources...
  - Reqtify? Can analyse links but can not manage them (creation, deletion) nor manage requirements
  - RMF? Good starting point but too generic and low level → need customization and more integration
- Open solution

# ReqCycle overview





# Demo 3

## ReqCycle



# Roadmap - 2013

- End of September : First public release
  - Import connectors: ReqIF , Docx , Xslx , CSV, ODT, SysML req (papyrus)
  - Ability to create traceability links between req and model element (DnD)
  - Ability to create a new req from an existing one or from a model element
  - Dedicated view to display requirements and filter them – view for traceability
  - Requirement export : CSV, ReqIF
  - Traceability links export in CSV format
- November: ReqCycle PolarSys proposal
  - Welcome

# Outlook

- Projects around RMF
  - SysML-Integration (Topcased / Enterprise Architect)
  - ProSTEP iViP Implementor Forum
  - Various approaches to traceability
  - Modell-Integration (Event-B)
  - DSL-Integration
  - Use in Research (FP7 Advance, itea2 openETCS)



# Give it a spin



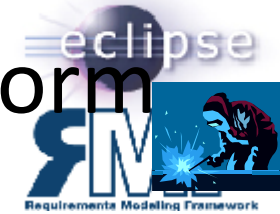


**Thank you**

**Questions?**



# ReqCycle configuration: user + platform



Organize, classify,  
Team scope,  
access rights



Scopes /  
Requirement  
groups

Examples of  
scopes:

customer,  
Hybrid vehicle  
system,  
electrical Engine  
subsystem,  
thermal engine  
subsystem,  
Battery  
subsystem,  
Engine control  
SW,

Define  
requirement  
structure  
(attributes, types)



Requirement  
types  
(according to  
attribute  
types)

Examples of Req  
types:

CustomerNeed  
(chapter, text,  
priority),  
System Req (id, text,  
author, maturity,  
Standard...)

Access external  
requirement sources  
Import, reference,  
update



Mapping with  
external req  
sources  
(according to  
connectors)

Examples of  
connectors:

DOORS, ReqIF,  
SysML, Word,  
Excel,  
OpenDocument,  
CSV

Define traceability  
configuration  
(possible links  
between objects)



Traceability link  
types (according  
to traceability  
engines)

Examples of links:

Derive(from system req  
to customer needs),  
Satisfy (from SysML  
element to system req),  
Satisfy ScadeOp (from  
Scade Operator to  
system req)  
Trace (from code to SW  
requirements)

Define UI and user  
actions to edit and  
link requirements

Views and  
menus (DnD,  
search...)

Examples of  
views:

Upstream (all  
requirements  
from customer  
module)  
MyReq (all  
requirements  
from SystemReq  
module)

