# Integrate MBSE in established engineering processes for holistic lifecycle management

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# ENAGAGE DISTURB DISCUSS



## LieberLieber

Vienna, Austria & Houston, Texas





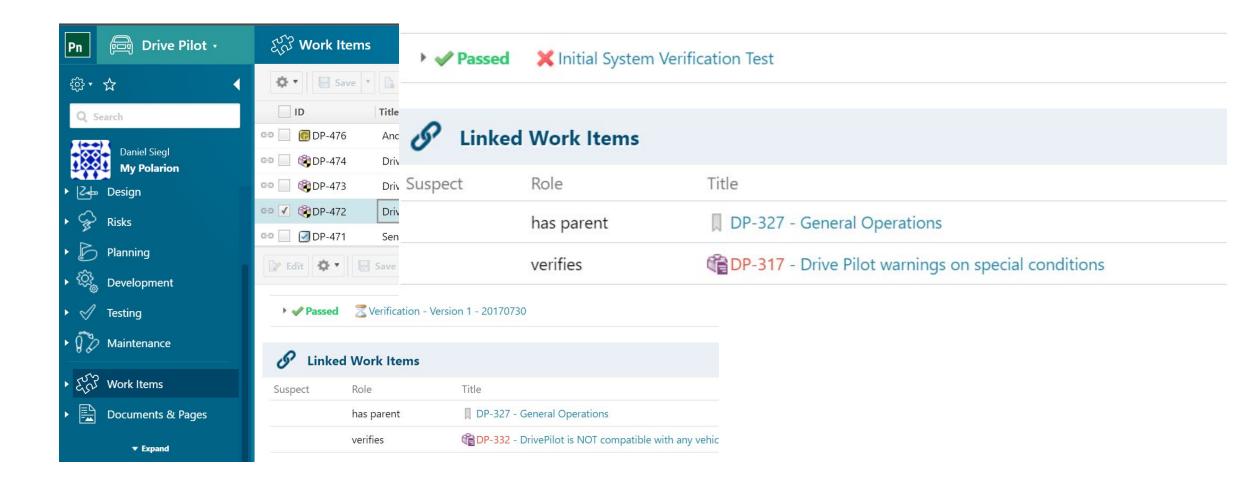
## History/Options of ALM Modeling Integrations (1/2)

- Point to Point (custom development DXL!)
- CSV, EXCEL Import/Update
- Enterprise Service Bus Style
- Manual in Excel
- The full roundtrip Myth

## History/Options of ALM Modeling Integrations (2/2)

- Tracebility Platforms (SmartFacts, IncQuery Labs,...)
- ReqIF
- OSLC
- ALM concentration strategies
- Pipeline thinking
- SpeciF
- Yaml in git

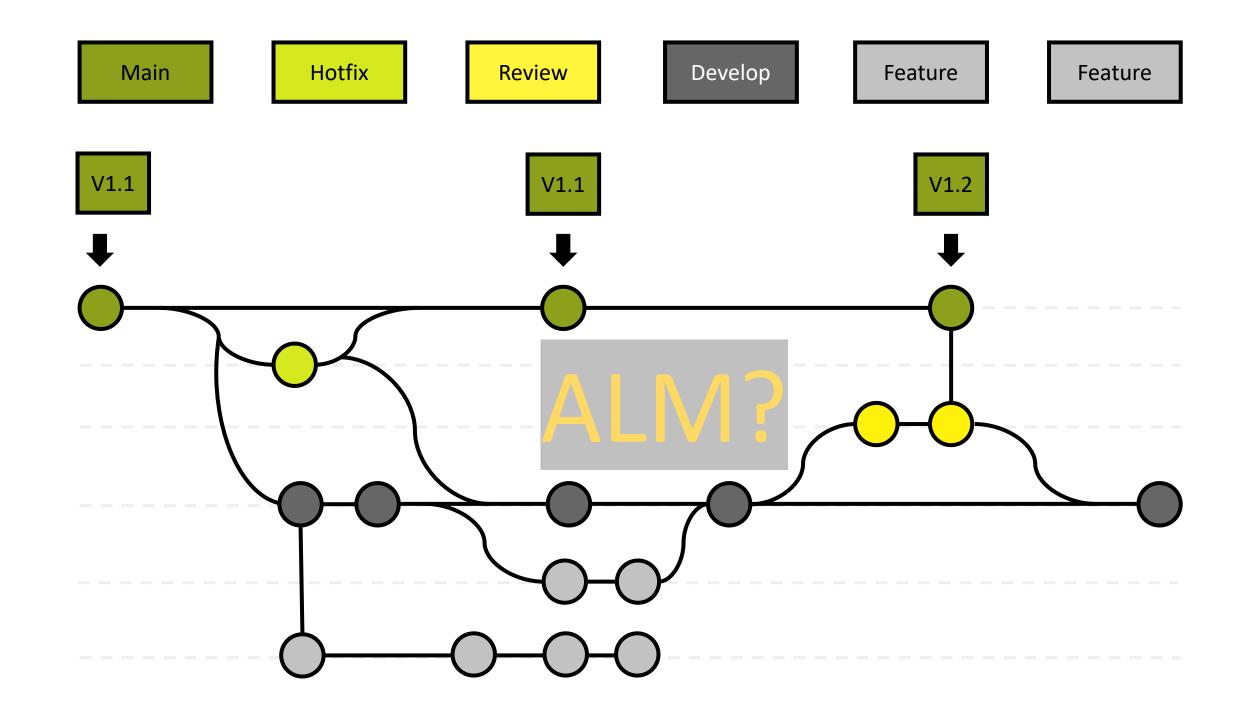
#### The Graph (modeling) starts in ALM





# AGILES

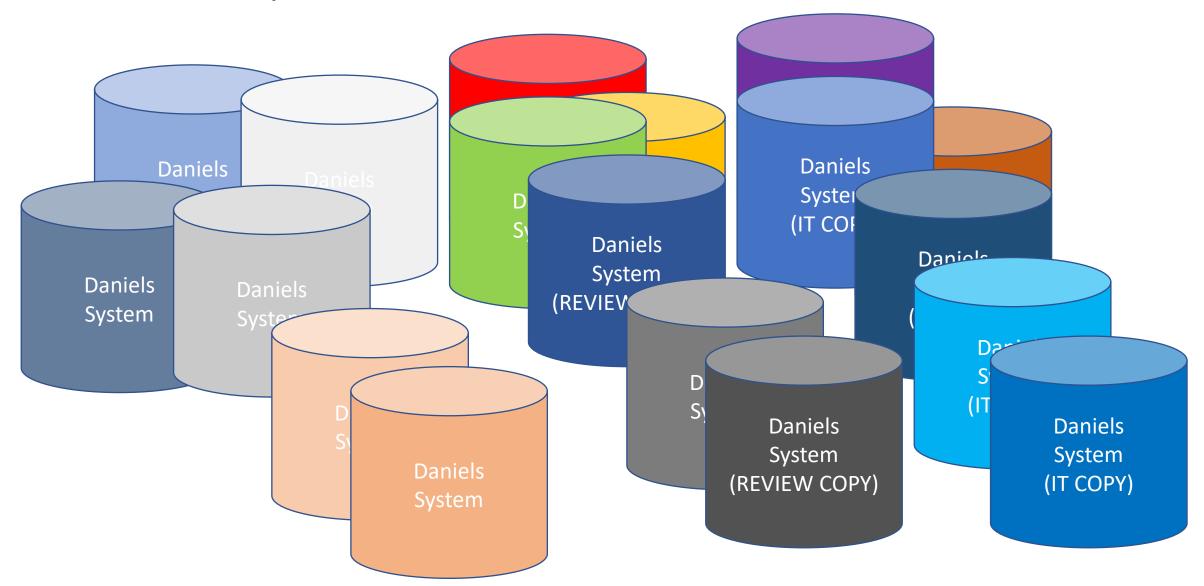
Really?



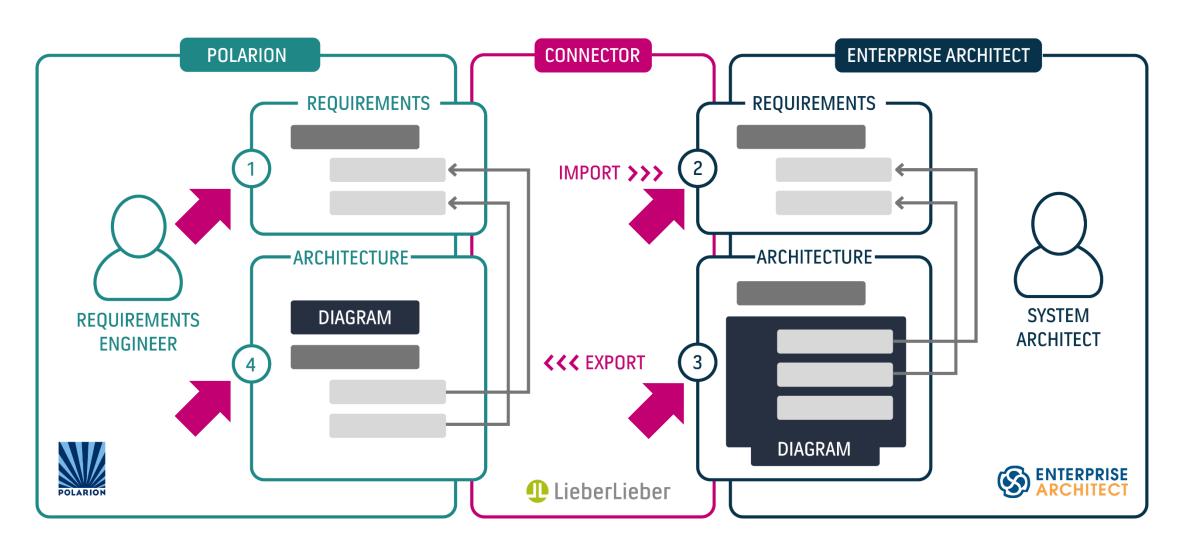
### Central Repo

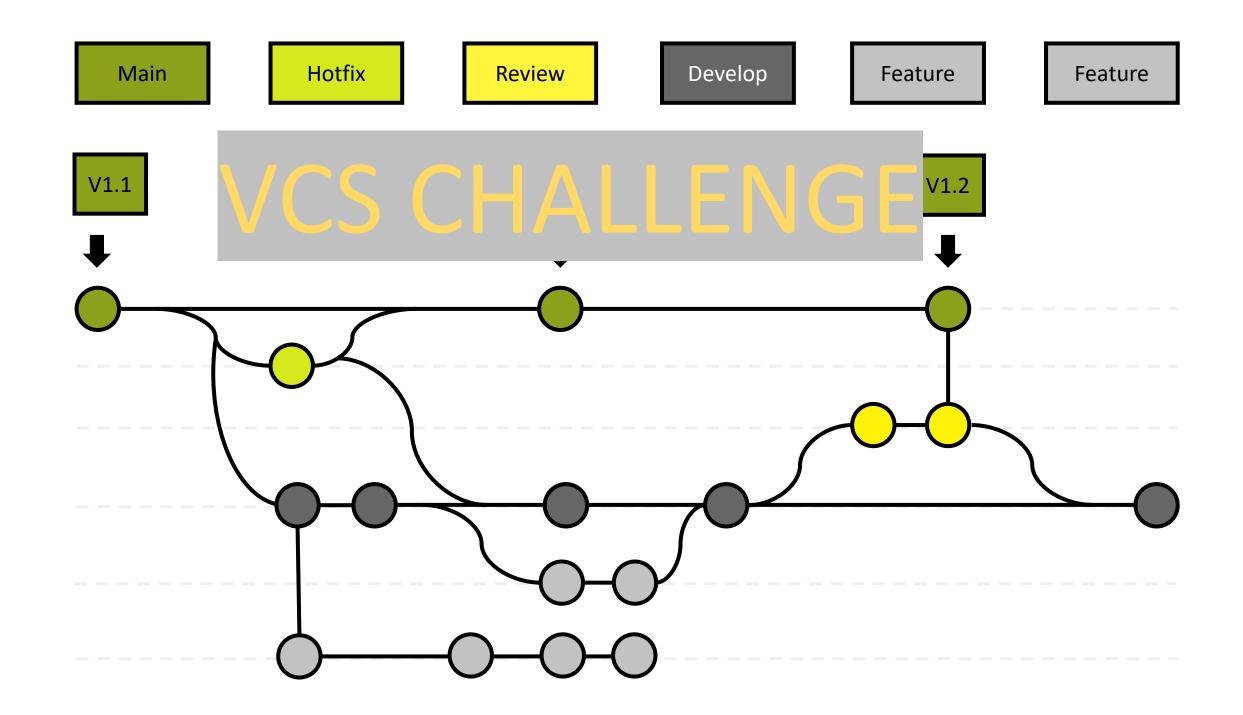


### Multi Repos

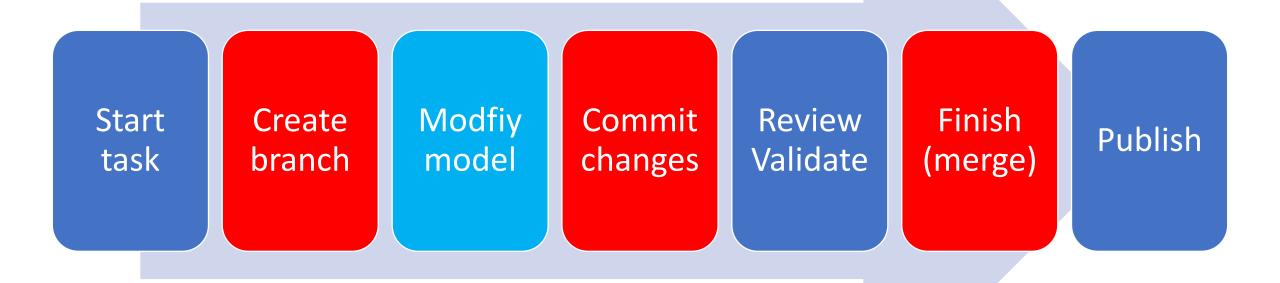


#### Polarion-Connector - suggested Workflows





### Agile Workflow





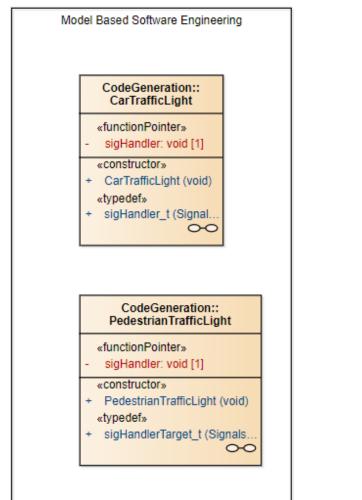
#### **Updated to LemonTree.Connect Polarion Automation 1.4** #440

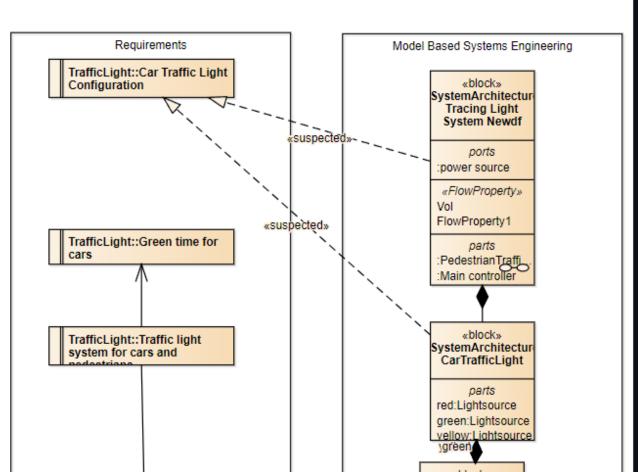
danielsieg wants to merge 5 commits into main from 439-update-to-lemontreeco...



#### Review Changes with LemonTree: Desktop/Web

Install LemonTree 3.3+ to open the Review Session file.





#### Case: OSLC based integration with Branches

- Sounds desirable?
- very complex multi vendor challenge
- No branching concept Agile?
- Single Vendor Environment with something like Global Config Management can work

#### Case: Model Transformation

- The branched models are consolidated in a model warehouse
- Only the Transformed Model (optimized for the traceability use case) is traced
- Complex process but it works
- Testing, Auditing a challenge

#### Case: Integration Platform

- Multi Tool Support
- 3C Analysis Completness, Correcteness, Consitency across tools
- Need to develop adapters
- Based on graph database
- Supports feature Branching
- Enterprise Class Solution
- Tracebility in a Traceability UI

#### Case: docs as code

- Lack of Branching in off the shelv ALM tools
- Git style workflows a must
- Requirements and Tracebility are maintained in Text Files
- Properly only for a limited audience.

#### Findings

- ALM tools are not very good in Branching/Merging
- Some customers are going all in git
- Some cusotomers go model Transformation to solve it
- Make sure your integration can support a 2023 Workflow
- Pure central solutions can be tough with a Feature Branch Process

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#### Some of our global Customers....

