

Oliver Fels SwissEd 2025



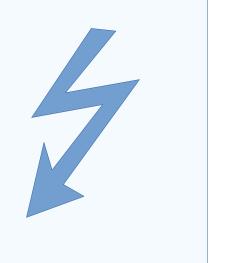


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Enemy of the state: Complexity

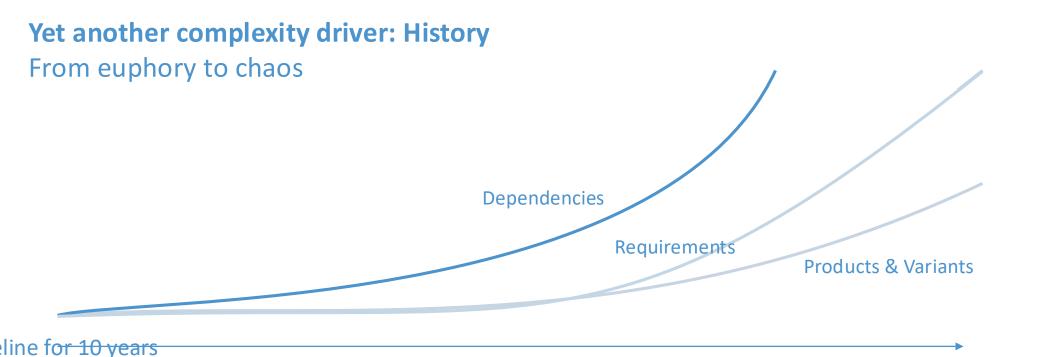
The number one evil

More requirements
More dependencies
More complexity
More Chaos





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Typical real word example

Company X

In business: 25 years

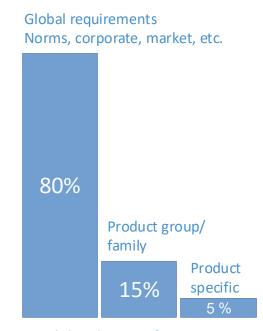
Product lines: 4

Product families per group: 5

Number of products in SAP: 12000

Number of requirements: Unknown

Number of requirements dependencies: too many



Typical distribution of requirements



Typical shortcomings

ReUse

Modularity

Synergy usage

Structure

Dependency Management

Common Methodology

Typical results

Misunderstandings

Redundant work

Quality issues

Lack of oversight

Knowledge drain

Many more



The role of requirements & stakeholder management

- First line of defense against costly mistakes
- Communication base
- Portfolio enabler and organizer
- Quality Enabler

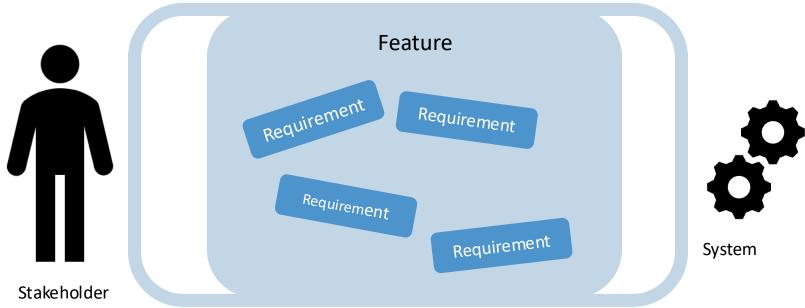
What it needs: A consistent methodology encouraging reUse, modularity and structure



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Introducing Feature Based Requirements Engineering (FBRE)

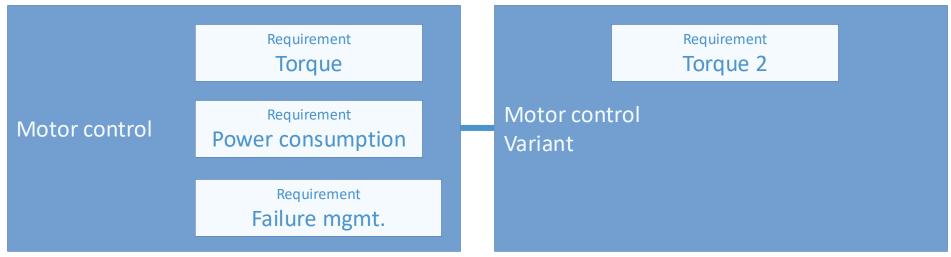
The feature – an encapsulating entity





Introducing Feature Based Requirements Engineering (FBRE)

Examples



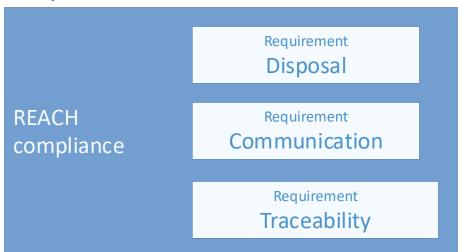
Feature encapsulates every spec. regarding motor control. Variants inherit from the parent. Result: Corporate wide, there is only one definition of "motor control" to be referenced.

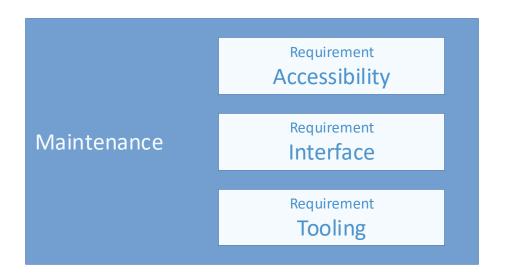


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Introducing Feature Based Requirements Engineering (FBRE)

Examples





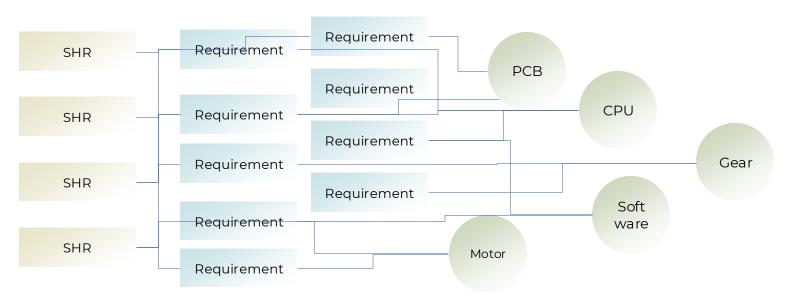
Features encapsulate knowledge in a unique and modular way be reUsed.



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Introducing Feature Based Requirements Engineering (FBRE)

Assigning to components/products - Before



Requirements have m:n relationships in a way which increases the dependency complexity

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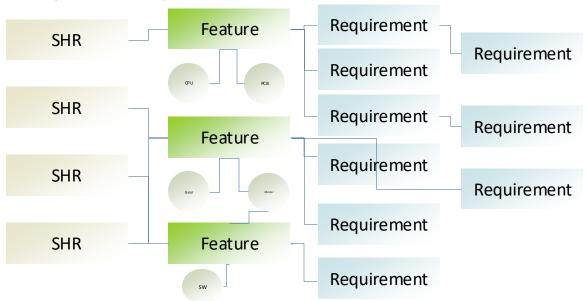
Silde Number 10



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Assigning to components/products - After

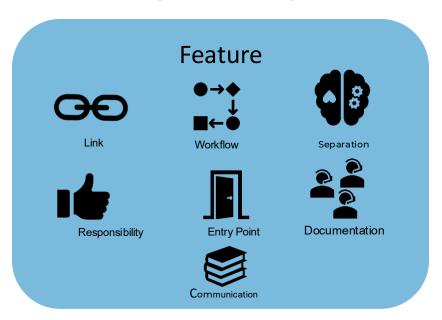


Linking components and products to features greatly reduces complexity.



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Benefits of a game changer



- Glues together stakeholder and solution space.
- Associating features and epics improves the workflow
- Enables feature responsibility and commitment
- Is an entry point for documentation, impact % gap analyis
- Enables reUse and modularity
- Provides a common ground to talk about
- Streamlines communication



Thank you for your attention!

And of course you have questions. So please: Ask.



More information?

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