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Additional Resources

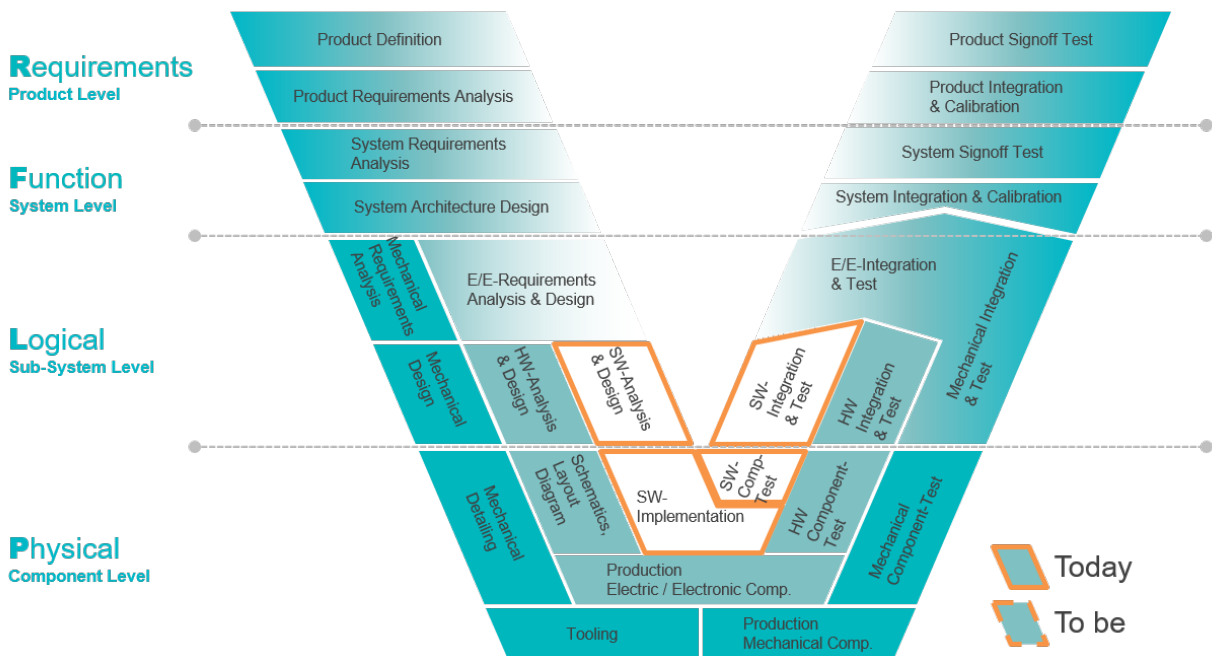
Editor	Dirk Denger
Additional experts	
Short Description/ Transmitted Information	<ul style="list-style-type: none"> • Modelling language for specification, visualization, design and documentation of software systems • ISO Standard
Application Scope	<ul style="list-style-type: none"> • Collaboration • Validation
Maturity	<ul style="list-style-type: none"> • Productive Usage
Goals	<ul style="list-style-type: none"> • Cross-disciplinary communication and collaboration tool • Lifecycle-oriented • Focus on model-based software development
Penetration	<ul style="list-style-type: none"> • Individual domains
Visibility	<ul style="list-style-type: none"> • Approx. 50%
Promoting Bodies	<ul style="list-style-type: none"> • GASQ - Global Automotive Supplier Quality • Autosar
Type	<ul style="list-style-type: none"> • OMG Standard • ISO Standard
IT Standard Classification	<ul style="list-style-type: none"> • Modeling Standard
Data Format	<ul style="list-style-type: none"> • ...
Relations to other standards	<ul style="list-style-type: none"> • ReqIF • XMI
Overlap with other standards	<ul style="list-style-type: none"> • SysML

Available accompanying documentation (Software vendors)	<ul style="list-style-type: none"> • Implementation Guidelines • Recommended Practices • Benchmarks • Testing Guidelines & Files
Available accompanying documentation (Industry Users)	<ul style="list-style-type: none"> • Use Cases • Content Harmonization Guidelines • Best Practices
Available accompanying documentation (Management)	<ul style="list-style-type: none"> • ...

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Positioning of UML in V-Model



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Additional Resources

1 Reasons from Industry (example):

- Increase consistency and clearness of information by providing a common language and representation (Focusing E/E & SW)
- Improve communication, collaboration & knowledge exchange efficiency across domains, business segments and organizations
- Increase efficiency in system conception & specification
- Support process automation in data exchange, by report and code generation
- Industry standard modelling language for software engineering (ISO 19505)

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2 What happens if we do nothing:

- Lack of tool interoperability, cross domain & cross enterprises
- A industrialized consistent (automated) development toolchain from System (SysML) to Code (UML) can't be achieved
- Efficient cross enterprise SW Development is Tool Vendor specific

General Details Positioning in V-Model Relevance and Benefit for MBSE Risks and Impediments

Additional Resources

Datei	Geändert
 image2019-10-2_11-26-56.png ¹	Nov. 19, 2020 by Peter Tabbert ²
 Positioning of UML in V-Model.png ³	gestern um 9:41 vorm. by Peter Tabbert ⁴
 Fact Sheet_ Unified Modeling Language (UML).pdf ⁵	vor weniger als einer Minute by Peter Tabbert ⁶

1 https://intranet.prostep.org/download/attachments/22806600/image2019-10-2_11-26-56.png?api=v2

2 <https://intranet.prostep.org/display/~petertabbert>

3 <https://intranet.prostep.org/download/attachments/22806600/Positioning%20of%20UML%20in%20V-Model.png?api=v2>

4 <https://intranet.prostep.org/display/~petertabbert>

5 <https://intranet.prostep.org/download/attachments/22806600/>

Fact%20Sheet_%20Unified%20Modeling%20Language%20%28UML%29.pdf?api=v2

6 <https://intranet.prostep.org/display/~petertabbert>