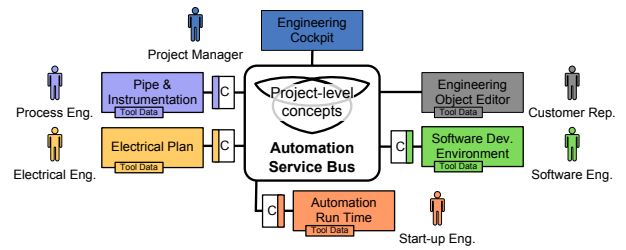


Automated test across tool and domain borders



Automated tests in heterogeneous engineering environments across tool borders should be enabled. Common concepts enable comprehensive data exchange and support execution of automated tests.

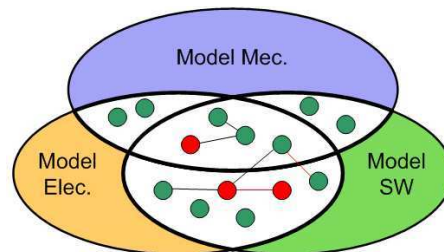
Goal

Heterogeneous tools enable isolated tests within one domain without considering tools of related disciplines. Comprehensive tests (integration tests) are typically conducted during plant commissioning with limited automation capabilities. Manual execution of integration tests require a high effort provided by experts, who should be supported by automated solutions.

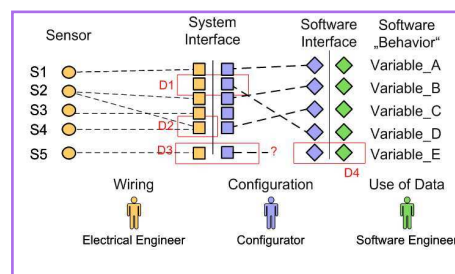
- Efficient defect detection, e.g., incorrect signal paths, in engineering phases and during commissioning.
- Enabling and improving automated tests across tools and domain borders.
- Significant reduction of test and commissioning effort.



Signal-Engineering: Common Data Model



Integration test: From (Hardware-)Sensor to (Software-)Variable



Solution

logi.cals and the Christian Doppler Laboratory at TU Wien provide the „Automation Service Bus®“ as an open source platform to bridge technical and semantic gaps in heterogeneous software tools. Common concepts enable experts to automate defect detection processes in signal paths and to provide focused information of related stakeholder in case of identified defects.

Automation-supported notification of experts regarding identified defects based on automatically generated test results. Significant reduction of testing effort and defect detection during engineering and commissioning.

Technical Data:

- Automation Service Bus®
- Semantic integration of common concepts on project level
- Test automation in heterogeneous engineering environments

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Customer Benefit

- Efficient and automated tests and decreased effort for testing and commissioning.
- Repeatability of tests after changes.
- Simple and efficient identification of defects in signal paths.

