

## Seamless Transition from Requirements to Test Cases: How to test a Software Product Line?

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Software product line engineering (PLE) extends the idea of mass-customization based on a common platform, known, e.g., from car production, to software development. PLE has become a major topic in industrial software development, as productivity gains and quality improvements are considerable, and many organizations made PLE the focus of process improvement activities. Yet, if software developers can develop a product 5 times faster using PLE techniques, how does an enterprise keep pace without having to hire 5 times as many test engineers?

This talk illustrates how test cases for a productline can be derived in a seamless fashion from requirements and how test cases can be reused among products to increase also the test engineers' productivity. The presented ScenTeD approach is use-case and scenario-driven, which facilitates easy derivation requirements for customer-specific products and according adaptation of test cases. The talk concludes with experiences from industrial application of the approach.