

TPTP-based testing at SAP

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The business case

Testing of SAP-internal and customer code

Technologies involved: mainly ABAP and Java/J2EE

Development landscape: various Java build environments, ABAP application server; multiple combinations of DB, OS, hardware

Test categories and tools:

- Static, unit, functional, integration, load, performance tests
- Internal, open source, third-party tools

User roles: application developer, test developer, tester, test coordinator, QM, Final Assembly

Further requirements: scalability, performance, auditability

Our Goal

An infrastructure that integrates all test tools used at SAP

- common models: test behaviors and metadata, System Under Test, test results
- interoperability: recursive invocation, data sharing
- common functionality
 - test persistence and retrieval
 - test planning, launching and monitoring
 - configuration and deployment
 - result persistence
 - result reporting, analysis and archiving
- Java IDE integration
- openness and extensibility
 - compliance with (de-facto) industry standards (Eclipse, TPTP, UML2TP)
 - extension points to add new test tools, software technologies, reporting capabilities

Architecture components

