MODEL-DRIVEN TEST AUTOMATION (MDTA)

Presented by Marc-Florian Wendland
MIDAS Test Automation in the Cloud

MIDAS Test Model

SOA System

Supply Chain Management (4 services)

TTCN-3 Execution

MIDAS TPaaS (Test Automation Solution)

E-Health System (12 services)

HL7  RLUS  IXS

SOA System

TTCN-3 Execution

User Conference on Advanced Automated Testing
MIDAS Test Automation Process

**Platform mapping (vertical)**
- TTCN-3 code generation
  - Generation of TTCN-3 modules according to deployment spec.
  - Import of already deployed modules (built-in libs)
  - TTCN-3 PSM

**Involved profiles**
- TTCN-3 PSM

**Platform mapping (horizontal)**
- TTwb Adoption
  - Adoption of test control part (Activity) to incorporate fuzzed test data parameters
  - Refinement of deployment according to predefined FuzzingLib library

**Characteristics of WSDL definitions**
- Resolved Test Model
  - Import of existing libraries and definition of XSD

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Conclusion

- MDA works for (full) test automation (& deployment)
- Increased maintainability of platform mappings
- TTCN-3 PSM simplifies the code generator
- Initial engineering effort was high
- Pilot case studies were successfully realized
- Not restricted to WSDL/XSD
- **Personal conclusion: Beware of XML Schema**
Contact

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