

Rix Groenboom & Jaap Mulder Strategie voor het testen van webservices

Samenvatting:

Tijdens deze presentatie gaan we nader in op het testen van via webservices geïmplementeerde applicaties. Het gebruik van de juiste test methode maakt het mogelijke om betrouwbare en schaalbare webservices te ontwikkelen.

Door de stijgende populariteit van Service Oriented Architecture neemt de noodzaak voor het onafhankelijk kunnen testen van webservices toe wat een complexe testomgeving verlangt. Aspecten van governance, functionaliteit, interoperability en security zijn van groot belang. Bestaande testmethoden schieten al snel te kort door de fundamenteel andere werkwijze van webservies.

De strategie voor het testen van webservices bestaat uit de volgende stappen:

- Het valideren van de WSDL file die het interface van de webservices beschrijft
- Het testen van de afzonderlijke services op robuustheid
- Het valideren van de functionaliteit van de services
- Het testen van de beveiligingsaspecten van de aangeboden services
- De combineren van individuele webservices tot complexere operaties en het modelleren van user-requirements
- De bestuderen van het gebruik van de service bij toenemende aantal gebruikers / transacties.

Deze strategie vormt de basis voor het ontwikkelen en testen van een webservice. Het past goed in moderne ontwikkelmethodieken als Test Driven Development (TDD).

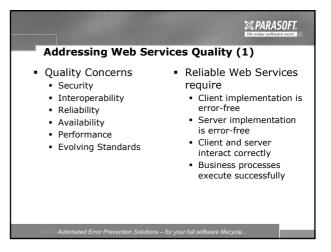
Deze methode is succesvol toegepast van vele ontwikkelproject van SOA. Tijdens deze presentatie worden voorbeelden gegeven van het ontwikkelen van de infrastructuur bij de centrale overheid.

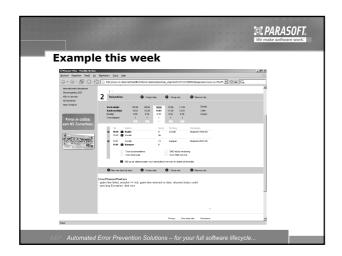
Biografie:

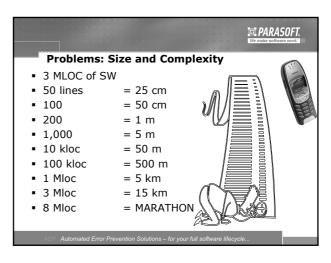
Jaap Mulder is heading the recently opened Parasoft Netherlands office, with mission providing sales, training and implementation support to the Dutch marketplace. Jaap has over 15 years experience training, pre- and post sales roles within in the software development and testing industry. He experience goes from embedded systems development, software development lifecycle tools to service oriented architecture. Jaap Mulder holds a BSc in Computing Science.

Rix Groenboom is Support Manager for Parasoft, a leading editor of Automated Error Prevention solutions to support European users. His primary responsibility is working with Fortune 2000 customers in the field of error prevention and correction. He has written over 30 technical articles and presented on Open Source and quality issues at many IT industry conferences. His main area of expertise is in the use of formal languages for the specification, design and validation of software applications. He holds a MSc and PhD in Computing Science from the University of Groningen (Netherlands) and has also performed part of his studies at the Institut de Recherche en Informatique de Toulouse (IRIT in France).

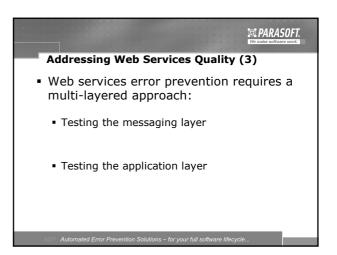


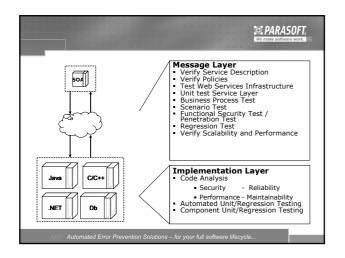


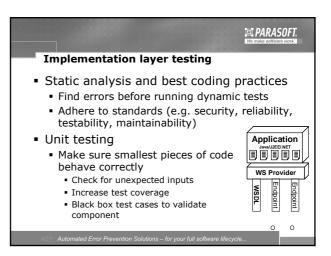


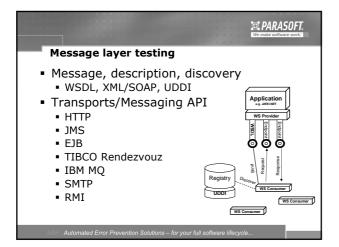


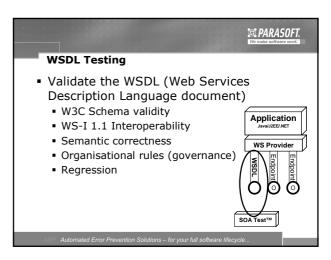
Addressing Web Services Quality (2) Web Services testing differs from traditional Web Application testing Different standards and skill sets (WSDL, SOAP, etc.) The need for specialized tools and technologies that support Web Services standards and fit Web Services architectural patterns (SOA) Security testing: tools and practices suitable for Web Services

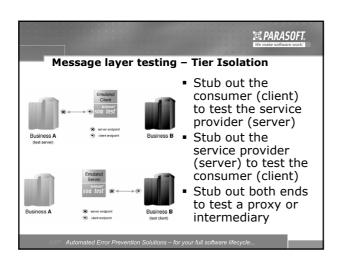


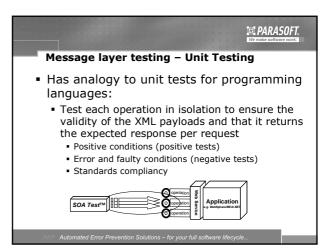


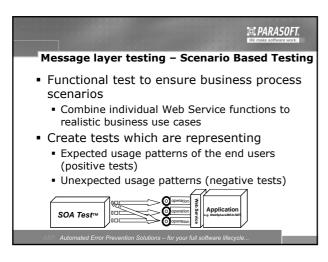


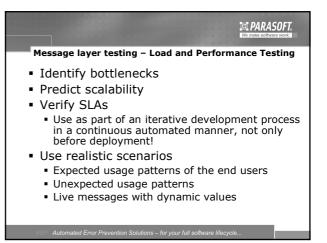


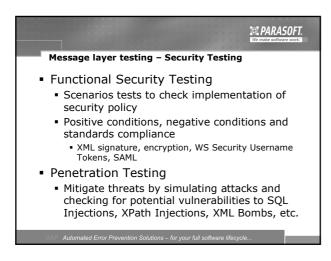


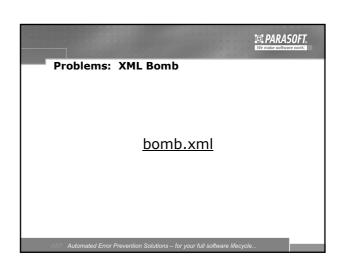


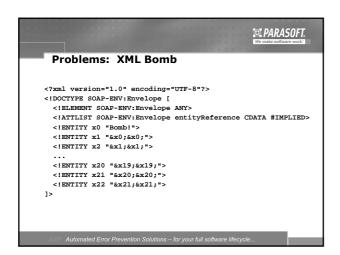












Message layer testing - Regression Testing

Regression Testing: test execution is automated to run tests on a regular basis

Spend time on creating tests, not running them!

Regression tests created during development are reused in:

Maintenance projects
Troubleshooting services in production

