

## Derk-Jan de Grood Conformance and interoperability testing - a different sport ?

## Samenvatting:

Conformance and interoperability testing will guaranty o.a. that

- your bankcard is working in a foreign ATM
- your new passport can be read by the border of your holiday destination
- your new USB gadget actually works
- the medical system that is used on you is actually save
- your service can be integrated without any problems and damage claims

During the presentation I will explain the importance of Conformance and interoperability testing and give examples of branches in which these tests are very important. I will highlight things that will need to be organized differently when setting up these tests. Things to consider are a.o.:

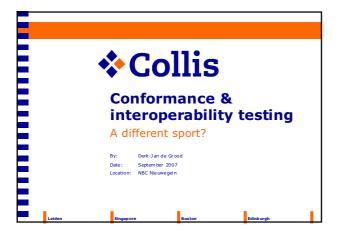
- Being fit for purpose vs. conform specifications
- The selling argument of products that are conform their standard
- The importance of re-useable tests
- The role of test automation and the need for objective test execution
- The one-to-many relation between test environment and test objects; the need for flexible test environments and test data.
- The need to indicate the deviations with the norm vs. helping to find a proper solution; How to be objective and supportive at the same time.

The presentation will link theory with practical examples. The participant will gain insight in a test form that he is less familiar with and might be able to learn some things that could be useful in his own environment.

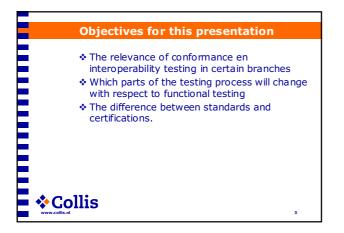
## **Biografie:**

Derk-Jan de Grood has worked as a tester since 1997. As an ISTQB/ISEB practitioner certified test manager he advises companies in setting up their test projects. Derk-Jan is responsible for coaching test experts. He uses the principles and result driven test philosophy as a daily practice. He is known as a passionate speaker at conferences, lectures and test training sessions. Derk-Jan is the author of TestGoal, the test philosophy by Collis. The book is published in April 2007 (ISBN 9789012118835, SDU/Academic Services) and deals a.o.with testing of conformance and interoperability.



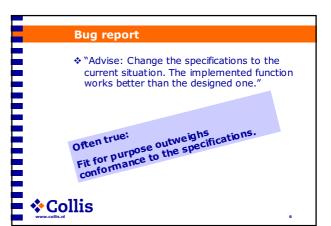




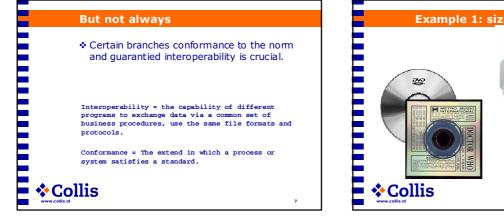


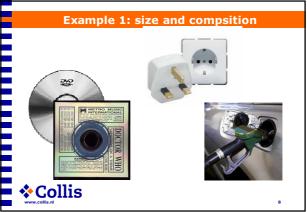
Ex	perience
Coll	is has track record in conformance testing:
*	Design, realization and maintenance of conformance test environments, e.g.:
	<ul> <li>Gezundheidskarte (Germany),</li> </ul>
	<ul> <li>VISA/Mastercard validated test suites for testing payment applications in Conclusion<sup>®</sup></li> </ul>
	CTAP testing for Concurrence.
*	Execution of conformance testing, e.g.:
	ATM test service on behalf of Equence.
	Smart Card testing for TNO (e.g. ISO-7816, ISO-14443)
	Interoperability testing for TransLink.
*	Auditing/ 2 <sup>nd</sup> opinion or coordination, e.g.:
	<ul> <li>IVERA/ Rijkswaterstaat: Traffic light protocol audit.</li> </ul>
	TNO: EM radiation and immunity test of industrial PC.





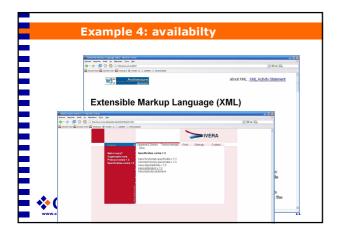








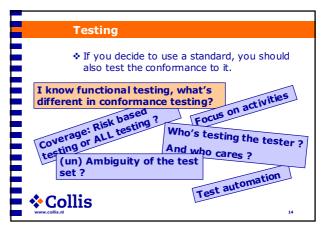


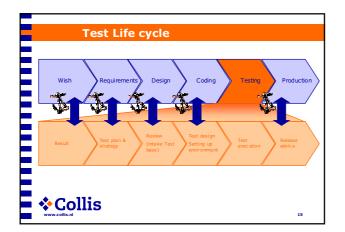


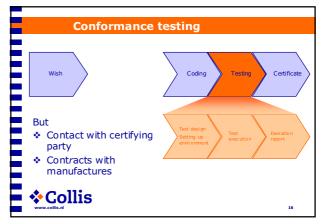
	Relevance	
	<ul> <li>Conformance tests are often carried out on infrastructure that exceed the domain of a single organization.</li> </ul>	
	<ul> <li>More than one manufacturer deliver systems that work within that infrastructure.</li> </ul>	;
	<ul> <li>Conformance is required on a interface or on (communication) protocol level.</li> </ul>	I
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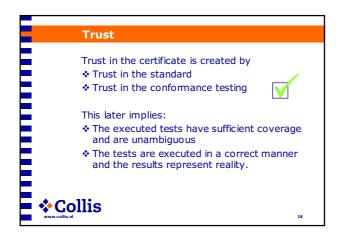


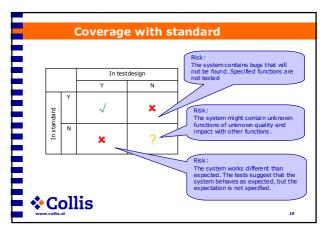




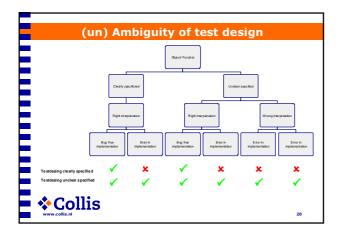


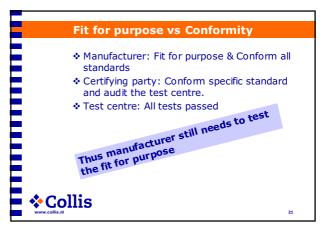








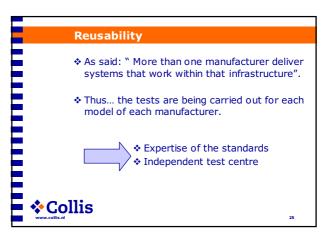




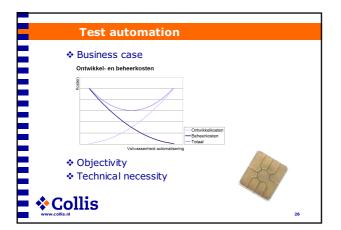


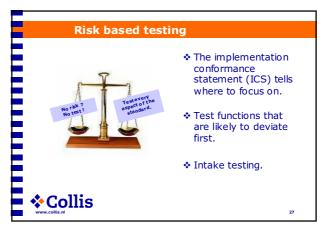
	Functio nal testing	Conformance Testi
Test basis	Changes often	Stable
Test environment	1-to-1 relation	1-to-n relation
Test design	Made by test team	Often prescribed
Reuse of test design	Limited	Many tim es
Test automation	Can be useful	Often very us eful
Risk Based Testing	Much added value	Limited added value
Bug fix and solution	Invol vem ent	Up to manufacturer
Organization	Often in projects	Often as a service
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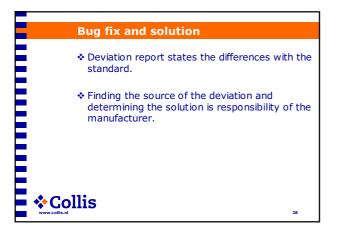




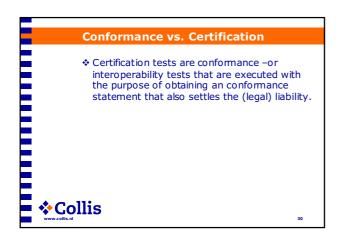






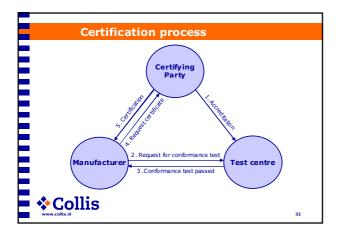




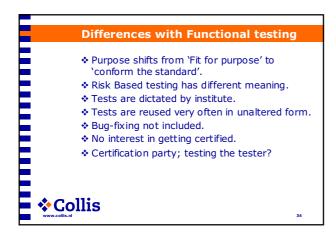












	Functio nal testing	Conformance Testin
Scope	Fit for purpose	Conform the standard
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