

### Title of Paper

## SOA Testing using Keyword Driven Test Automation

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### Presenter/Company

Peter Gillogley, Queensland Health (AU)

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### Instructional Skill Level

Introductory     Intermediate     Advanced

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### Target Group

Test Automation specialists, test practitioners and engineers, software and test managers, QA managers, development managers and other professionals interested in building and delivering better software

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### Key Points

- Test Automation
  - Web Services & SOA Testing
  - Risk Based Testing
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### Abstract

This presentation will use a case study involving the SOA testing of a client directory service using keyword driven testing. Key word driven testing and a framework used to author (in Microsoft excel) and execute key word driven tests will be introduced. The case study will demonstrate how such a framework can be used to realise traditional testing approaches such as risk coverage and requirements coverage.

Re-use of keywords can enable efficient test case development. Test case design techniques such as boundary value testing and equivalence testing can be achieved through a combination of keywords and data.

The testing required simulation of a data interchange protocol (in this example a health data interchange standard called HL7) as well as interaction with a XML based web service over HTTP (JAX-WS). The differences and challenges over traditional screen based functional keyword driven testing will be discussed.

Abstraction can be used to isolate the test framework from the testware that interacts with specific SOA technologies. Such testware requires careful management and non-trivial testing in its own right.

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## Biography

Peter Gillogley began his 18 year IT journey at IBM (systems engineering) and then CSC (National Integration Manager), Praxa (Project Director) before starting his own consulting company (Gillogley Services). Peter has spent the last 10 years specialising in testing. His current engagement is team leader at Queensland Health Testing Centre of Excellence (COE). Peter is involved in requirements assurance, risk and requirements based test planning, test case design, test governance and methodology development. His special interests are in electronic health record integration and test automation.

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