

**SOLUTION BROCHURE**  
**IMPROVING THE EFFICIENCY AND TIMELINESS OF THE BENEFIT ENROLMENT PROCESSING**

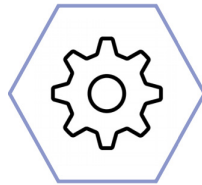
# SMARTER BENEFIT ENROLMENT PROCESSING

## END-TO-END SOLUTIONS



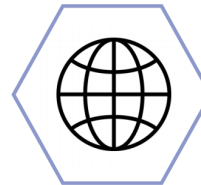
### SHIFT LEFT

Identify architecture problems by defining test automation before the solution is implemented



### AUTOMATION

Incorporate automated test processes at various development stages, resulting in reduced man-hours & better test coverage



### VIRTUALISATION

Test applications reliably even if they are not currently available for integration



### BUSINESS ASSURANCE

Best practices and methodologies that go beyond Quality Assurance by aligning testing with business objectives

## SOA AND MIDDLEWARE TESTING SERVICES

Most organisations employ a Service-Oriented Architecture (SOA) or some form of middleware to integrate their enterprise systems. Testing these integration implementations can be a challenging and complex undertaking, with testing needed every time an application changes, and complexity increasing with every additional application.

Effective testing requires an end-to-end participation of the applications and the business process logic they provide, data mapping and transformation, integration business logic and data transport, as well as reporting and error handling. As all transactions are now transcending applications, all possible error conditions must be accounted for. Data cannot afford to be out of sync. As a result, our clients find integration testing much more complicated than the testing of any single application being integrated.

## Production versus Test

Cost and complexity of integration testing are magnified further when the systems are not available. When developing and deploying an application, the integration has traditionally waited until the application was itself completely tested.

Furthermore, it might not be possible to test the production instance of the application, introducing even more cost and complexity to provision and maintain a test version of the application.

## The Keys to Success

Start with a Shift Left approach – build solutions that are not broken to begin with. With this approach, test automation is defined and ready to run even before the first iteration of the solution to be tested. This helps to identify architecture problems earlier, when they can be corrected faster and at less expense than later in the development lifecycle.

Prolifics Testing also introduces Testing Virtualisation in order to isolate individual components of the integration solutions, allowing us to validate each component thoroughly under strict conditions. This reduces testing complexity and cost significantly:

- Each component is individually tested and validated
- Errors and defects are identified and isolated faster and easier
- Testing can be performed without all of the participating applications
- Participating applications can be simulated if they are not yet available or are too costly to provision for testing purposes
- Testing changes so participating applications can be faster and more effective

### Testing Methodology

The Prolifics Testing approach to testing combines component-level and system integration testing with our proven test framework and accelerators. This provides automated generation of test cases based on the business process logic of the SOA or commercial middleware implementation. It also provides thorough validation of interfaces with respect to data transformation and mapping – crucial in any SOA integration environment.

### Business Assurance

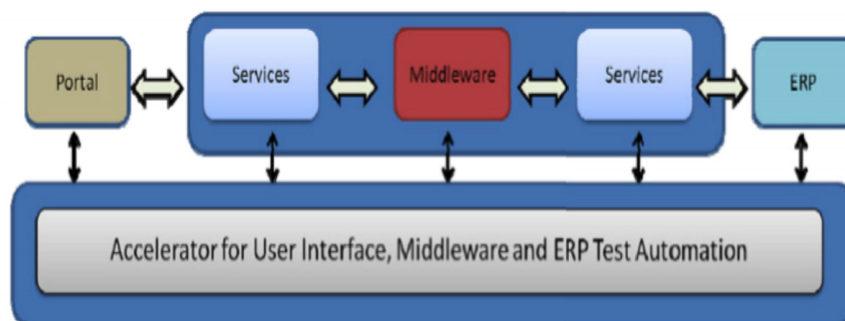
We ensure that all business requirements are met and that the SOA and middleware infrastructure functions as intended. By automating key Business Assurance processes, Prolifics Testing helps to improve the testing process' speed, accuracy and flexibility.

### Test Automation

Our accelerators automate test data extraction and creation, test execution, validation and reporting. Doing so helps significantly reduce the manual, repetitive and labor-intensive efforts associated with regression testing.

### Performance Testing

Our testing specialists identify potential performance bottlenecks within the SOA and middleware architecture and establish recommended next steps to optimise performance and ensure scalability.



### Business Assurance through SOA and Middleware Testing Quality

The utilisation of SOA and commercial middleware, such as IBM WebSphere, TIBCO, Oracle Fusion, and SAP Process Integration, has enabled enterprise systems to interoperate and provide more functionality than ever before. However, they can also represent a vulnerability in the reliability of a business' interoperational processes because they more easily enable the propagation of process errors and bad data. SOA and Middleware Testing from Prolifics provides businesses with confidence that their integration solutions are providing the right data, to the right processes, and getting the right results.

Using our Business Assurance Through Quality approach, all SOA and Middleware Testing is instrumented and analysed. Results are then made available on a testing dashboard, providing confidence that the integration solutions are meeting the business requirements.

### Improve Testing Quality Today

Contact Prolifics Testing at [info@prolifics-testing.com](mailto:info@prolifics-testing.com) to learn how we may help assure your business of the quality of its SOA and Middleware implementations.



### OUR COMPANY

Prolifics Testing is a specialist IT consultancy with a total focus in software testing - automation, performance, consultancy and training.

We deliver high quality, flexible software QA and testing services - supporting our clients with outsourced testing on demand, digital transformation, business as usual and specialist testing disciplines.

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