

Service Definition: Service Oriented Architecture (SOA) Testing Services

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Description:

SOA testing resources and expertise are scarce, and building an in-house capability can be challenging. With over 300 experienced, skilled resources focused on SOA testing we bring clients the necessary people, tools, accelerators and frameworks to enable smooth transitions from legacy to best in breed SOA - all based on our well proven TMap® methodology for both waterfall and agile delivery environments.

Across the board we are helping our clients to solve the complex challenges of SOA testing by thinking the way our clients think. We take an approach that leverages significant global capability and tooling in a model focused on our client's business vision.

Below, we have highlighted the key elements of our approach, which has been proven at enterprise-scale and refined as a result of our experience across multiple business verticals. It puts client drivers first - such as speed to market, flexibility, delivering an Omni-channel seamless approach to the consumer experience, project assurance, and governance. Above all, with our robust SOA testing approach we can help you to deliver on your business vision and enable SOA project success wherever you are in your SOA journey.

Why Use This Service:

Key Drivers include:

- ◇ Omni-channel
- ◇ Digital transformation
- ◇ Legacy upgrades
- ◇ Rationalisation of the IT estate e.g. as a result of a merger or transformation initiative
- ◇ Competitive advantage

Testing of SOA is a critical part of delivering end to end solutions in the cloud; the very flexibility of SOA brings challenges of its own. The complex landscape of web services, middleware services and existing legacy services can render traditional testing approaches ineffective. Sogeti has built a SOA testing approach specifically for the SOA architecture it services - modular, standardised, and driving re-use wherever

Key Elements of This Service:

Acceleration: By working hand in hand with development teams, Sogeti brings forward the involvement of the testing function within the development lifecycle, and ensures re-work at the end is kept to a minimum.

Our testing approach ensures better overall quality by driving efficiencies into your own delivery models - as we work with your team to flag up defects earlier and ensure they are ironed out at a lower cost. This not only benefits the testing stream, it also provides advantages to client development teams as the virtualised service calls we create early on in the process can be re-used during development to improve the quality of the delivery and support agile delivery processes

such as Test Driven Development (TDD).

Service Virtualisation: Time to market is business critical so waiting until all solution deliverables are available before testing begins doesn't make sense. It also adds risk into the project. Sogeti's Service Virtualisation offers significant advantages. By emulating dependent systems instead of accessing or cloning them we can emulate their behaviour and fully test your solution at a fraction of the software and hardware needs, otherwise required. This reduces your time to market by increasing the amount of uptime for testing by 20-60%, and it decreases the cost of end-to-end testing by up to 50%. With Service Virtualisation you can start testing much earlier in the process even

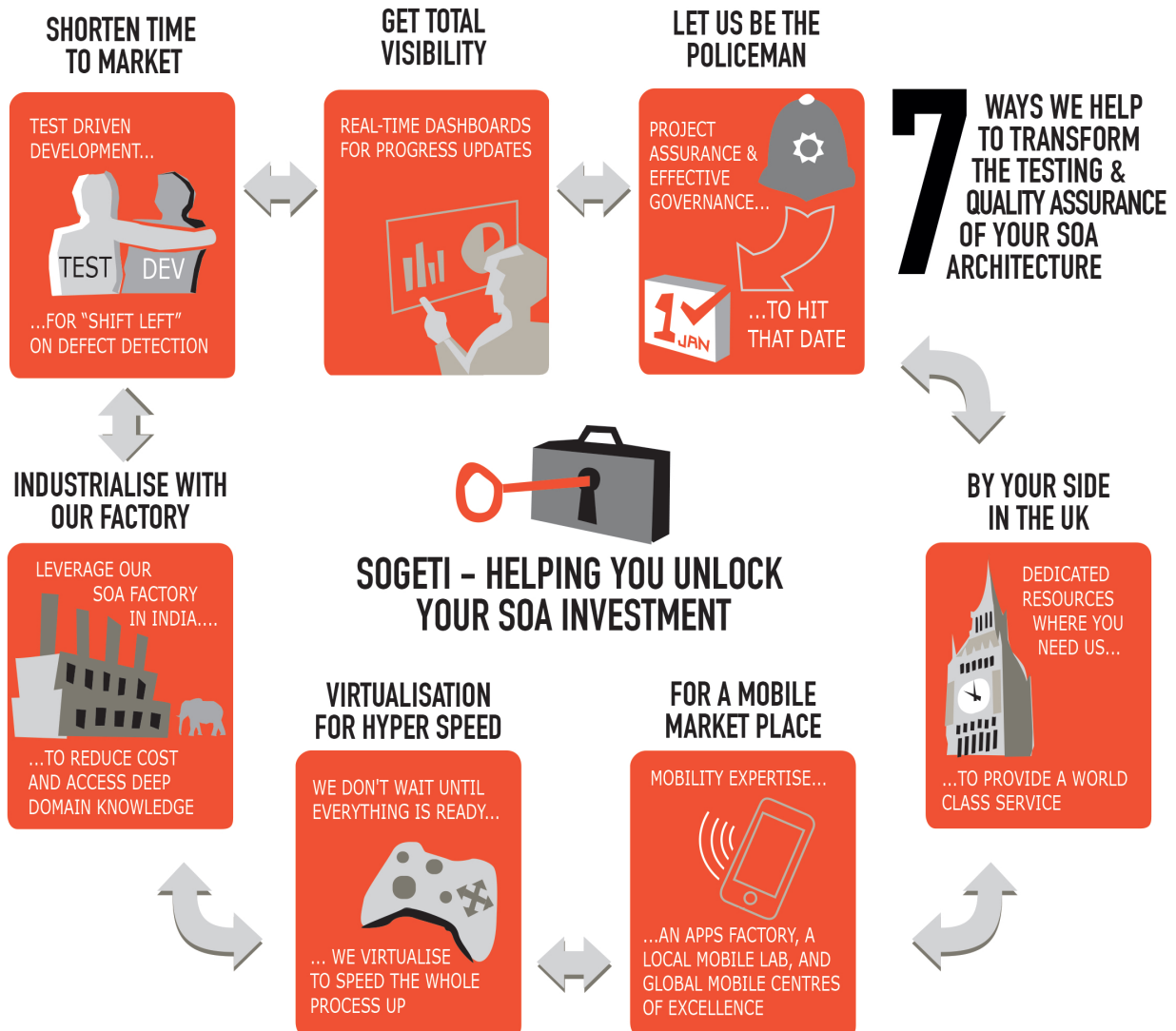
before dependent components become available and ensure that SOA deliveries are representatively validated at both an atomic and composite level. By testing in this way we can identify defects much earlier in the process, and avoid costly errors.

Automation & Tooling: A key part of delivering the

acceleration outlined above is through the use of our industrialised SOA Test Automation Framework. This enables us to deliver significant regression testing through the automation of test suites on a standardised architecture. It also speeds up the test process as these suites can be used across sprints to test build quality, and they can run

around the clock.

In the areas of tooling and test suites, we bring significant reusable expertise, routinely expanding our service to provide multi-platform web service testing and security regression suites. SOA requires a comprehensive test tool strategy and Sogeti has made significant investments in



END TO END TESTING COSTS **DOWN BY 50%**

TESTING UPTIME **INCREASED BY 60%**

establishing Test Labs, proof of concepts, and external partnerships to ensure that we remain on the cutting edge of technologies.

Our alliances with Computer Associates, HP and IBM mean we have direct access to SOA testing tools from CA LISA, IBM Service Tester and HP SOA Tester, as well as open source tools such as SoapUI and SoapSonar. Those strong external partnerships are matched by significant investment in proprietary tooling - such as our extraction log utility for SOAP Testing.

Mobility Expertise: With enterprises migrating to next generation IT architecture based on SOA, traditional stand-alone approaches to mobility have become unsustainable. Instead, a new approach that harnesses the full power and governance models of SOA to take mobility out of the silo is key to achieving business benefits.

Sogeti has the ideal testing approach to enable rapid deployment of tactical mobile solutions, but also to achieve that safely within a robust enterprise architecture. In addition to our global capability, Sogeti's UK web and mobile lab gives you local on-demand access to a broad range of test tools, devices, O/S and accelerators.

Project Assurance: With over 300 experienced, skilled resources focused on SOA testing and a deep experience in end-to-end testing across enterprise wide projects, Sogeti can offer a high level of overall project delivery assurance through a model that delivers high quality results.

The Sogeti test team routinely operates as an independent function to support the 'policing' and handling of end to end release management- so there are no surprises.

Governance: Many organisations have embraced SOA and in the process have created numerous related services, which often results in an overlap of multiple service buses, design and testing groups.

Sogeti can streamline your current SOA implementation through effective governance or set up governance frameworks from the outset. Our SOA testing experts are involved in the governance forums which sets us apart in the SOA testing space.

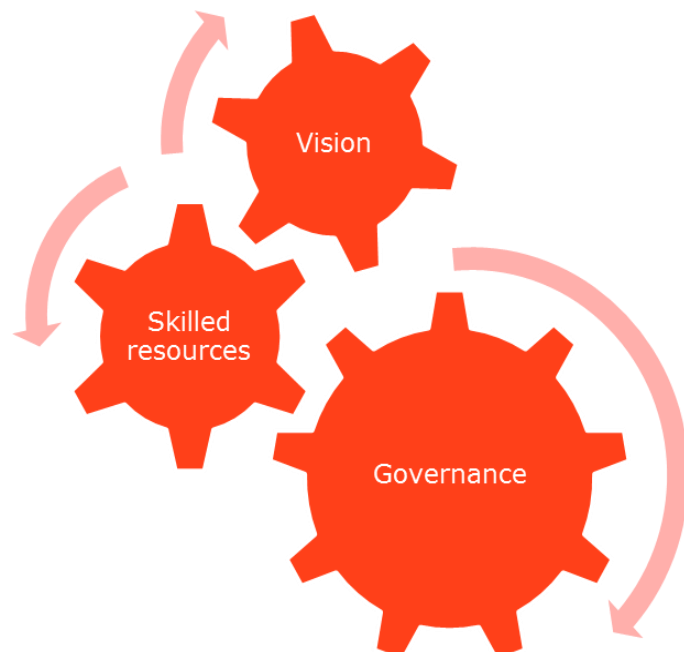
Transparency: In order to give our client's accurate progress reports Sogeti has invested in ways of working with real-time performance dashboards that can be refreshed anywhere, on any device. These can be

personalised to answer particular client performance indicators and show response times, burn down, or progress backlogs. They enable clients to track progress from day one and flag up issues early.

Local Touch, Global Reach: We operate a tried and tested distributed delivery model that delivers onshore client intimacy, and the scalability and cost-effectiveness that our clients require.

Our Subject Matter Experts (SME's) and test consultants collaborate closely with our clients and our extended global team through stand-up meetings, video and web conferencing. Our onshore SME's act as the bridge to Sogeti's offshore SOA delivery factory in Bangalore, which provides industrialisation, and an ability to flex up SOA test resources rapidly, on demand, with all the benefits of local control and accountability.

Project Assurance & Governance Deliver on the Vision:



Procedure:

Our approach to implementing an SOA testing solution is summarised below.

Gather

- ◇ Project(s) log their SOA Service Demand into the SOA Build Factory's Roadmap.
- ◇ SOA Build Factory states/establishes the project specific dependencies for delivery for SOA Services.

Agree

- ◇ Once dependencies are in place, the dates to deliver the SOA Services are agreed upon.
- ◇ Resources are committed.

Deliver

- ◇ The IT Test Centre has the capacity to deliver up to 250 Small Atomic SOA Services per quarter.
- ◇ The IT Test Centre can build the capability to deliver more Service Points if required, and only needs 4 weeks advance notification.

- ◇ The Delivery Team itself is a mix of SOA and domain experts.
- ◇ Teams are aligned to odd/even drops. So even if there is a delay in an odd drop, the even (next) drop Test Preparation/Functioning continues.
- ◇ To meet the aggressive capacity demands, an effective induction and training is program in place for new staff which helps them hit the ground quickly.
- ◇ Effective Knowledge Management mechanism in place by virtue of WebEx recordings, Query Logs and FAQs.

Acceptance Criteria:

The service is carried out using an outcome based commercial model in which the SOA work is classified on type of services and complexity. Acceptance is on delivery of the agreed outcomes.

Price:

See SFIA rate card.

Ordering and Invoicing:

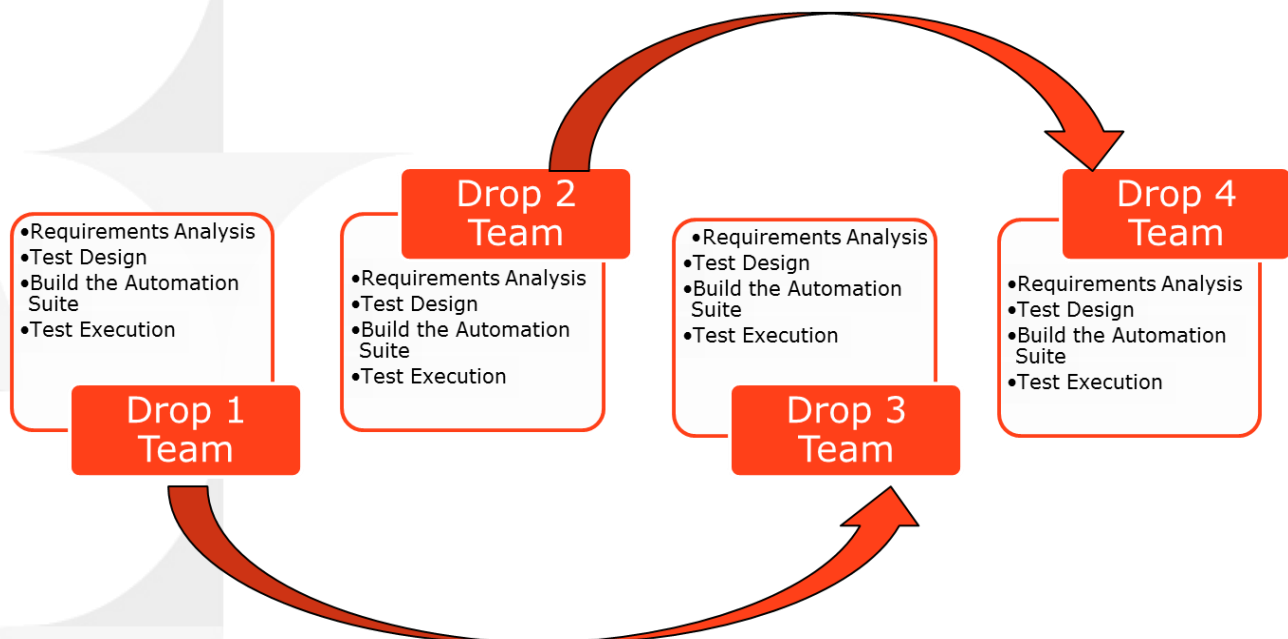
Please contact the G-Cloud account team by email on gcloud.uk@sogeti.com or call 020 7014 8900 and ask for Paul Collins.

Please see Sogeti UK standard terms and conditions section 5 for invoicing and payment terms.

Termination Terms:

By consumers (i.e. consumption): For service durations over a month Sogeti will require one (1) months written notice and for services under a months' duration Sogeti will require one (1) weeks' notice.

By the Supplier (removal of the G-Cloud Service): Not applicable.



Our Other G-Cloud Services:

Sogeti also provide the following related Specialist Cloud Service via the Cloudstore and independently:

- ◇ Accelerated Automated Functional Testing
- ◇ Agile Business Services
- ◇ Functional Test Script Creation and Execution
- ◇ Managed Testing
- ◇ Mobile Testing Services
- ◇ Performance Testing as a Service
- ◇ Service Oriented Architecture (SOA) Testing Services
- ◇ Testing Transformation
- ◇ Test Assurance
- ◇ Test Management
- ◇ Test Platform as a Service (TPaaS) Advisory and Implementation Services
- ◇ Test Process Improvement
- ◇ Test Process Improvement Assessments
- ◇ Test Training
- ◇ UAT as a Service
- ◇ Website Accessibility Test Script Creation and Execution

About Sogeti:

Sogeti is a leading provider of professional technology services, specialising in Testing, Application Management, Infrastructure Management and High-Tech Engineering. Working closely with its clients, Sogeti enables them to leverage technological innovation and achieve maximum results.

Sogeti has clients in a broad range of industries to design, develop and implement flexible solutions that address the unique needs of a client's business. Sogeti has built up a wealth of expertise in key industry sectors, including Government and Agencies, working for clients in Central/Federal government departments, as well as Local and Regional/State government departments. Sogeti brings together more than 20,000 professionals in 15 countries and is present in over 100 locations in Europe, the US and India.

www.sogeti.com

For more information about how Sogeti's Testing Services can help public sector organisations achieve their testing and QA goals, please contact us via the contact details listed here:

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