

# **G-Cloud 14 Service Definition Document**

**Aaseya Quality Assurance and Testing Services**



# 1. Overview

Aaseya provides software quality and testing professionals for implementing strategy, planning, scripting, execution and management of software quality assurance and testing. Aaseya covers all aspects of quality assurance and testing.

With a specific focus on Public Sector, Aaseya works with Public Sector and Government bodies globally to implement and manage their Cloud Platforms and digital solutions.

Aaseya delivers Cloud Testing services both on customer site, off-shore and using hybrid delivery models. These services include:

- Functional Testing – System Testing, System Integration Testing
- Non-Functional Testing – Browser Compatibility, Performance Testing (NeoLoad & JMeter)
- Testing Automation – Using tools like Selenium

We deliver these services as part of the agile delivery process including in-sprint testing.

## 2. Scope of Services

Aaseya TCoE (Testing Centre of Excellence) offers a wide range of testing services. We follow best practices and use accelerators to assure timely and high-quality delivery. This includes usage of risk-based test approaches and reusable work library.

**Functional Testing** - We prepare test strategies that cover items for System testing and System Integration testing.

- Test cases covering Boundary Testing
- Rule based scenario testing
- Negative Testing
- Backward Compatibility testing
- Business logic validations and UI testing
- Test Coverage report

### Non-Functional Testing

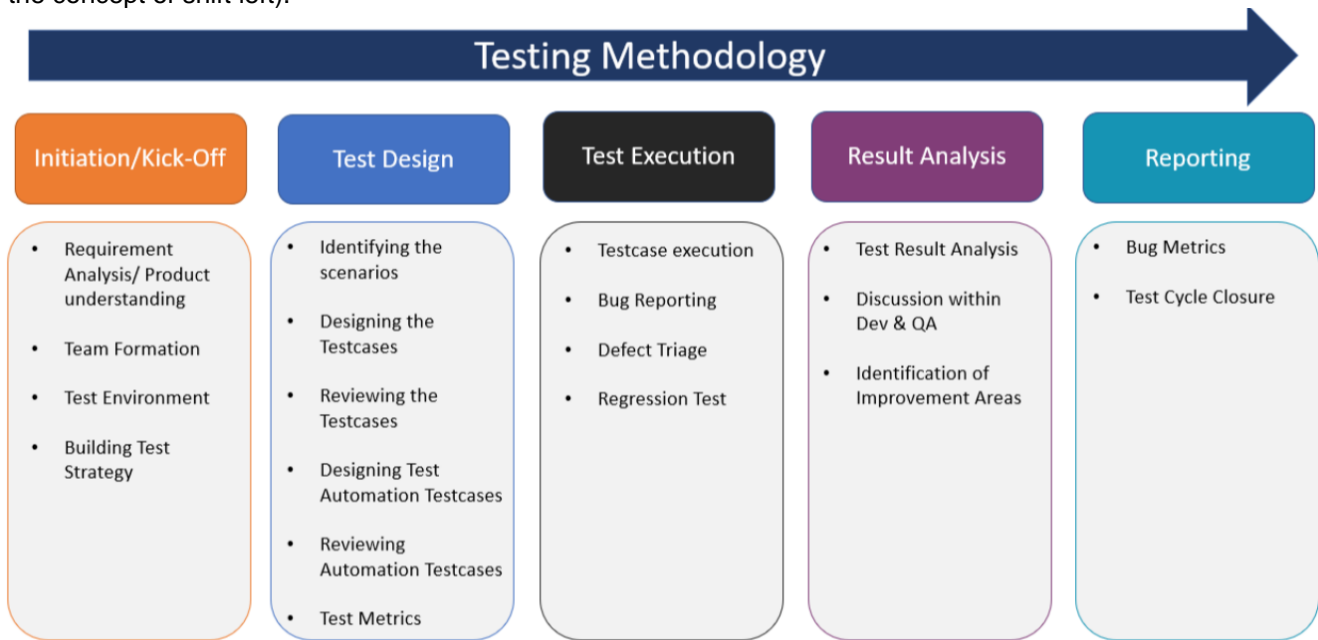
- Performance Testing – During performance cycle we perform Load and Stress as well as Endurance testing by using (Neoload, JMeter, Fiddler, Influx and Grafana)
- Compatibility Testing (applicable OS /Software /versions/Devices) - To check whether application is capable of running on different hardware, operating systems, applications, network environments or Mobile devices

**Testing Automation** - During automation testing, we use a hybrid Selenium automation framework for regression testing cycle.

- Business driven development Automation / TestNG test suite (Selenium and Rest Assured)
- Headless driver for API and Services testing
- Customized Automation test reports

### 3. Quality Assurance and Testing Methodology

As part of the Aaseya Quality Assurance and Testing Services, a strong and proven testing methodology will be adopted ensuring the quality of product that is released. Much of the testing will be carried out in-sprint. This is where the Test Team is embedded as a quality assurance function within the development Sprint Team. This assures that any development meets an appropriate level of quality prior to the sprint completion (this embraces the concept of shift left).



Aaseya use 2 techniques for testing solutions and ensuring a high level of build quality:

**Manual testing / Functional testing** – Following methodologies we follow during testing cycle and produces a report after each cycle.

- Unit testing - Unit testing will be performed during the testing cycle.
- System testing – Will execute the test cases on GUI only functionality to make sure functional components are working together.
- System Integration Testing – the Postman tool can be used to test any API for validate any integration points are working together.
- User Acceptance Testing – We provide support during the user acceptance testing cycle.
- Pega Specific Testing (only for Pega Projects) - theTesting will team carry testing by using the inbuilt Pega tools and generate reports
  - Clipboard
  - Tracer
  - SLA testing
  - Rule based testing
  - Work List & Bucket Testing

**Automation Testing** – During the automation cycle, we built incremental scripts and add, modify or delete to make comprehensive test suites for the current and future release.

- Define the scope of test case automation - considering the test scenarios to be tested, technical feasibility, complexity and priority of selected tests
- Test framework selection – Selection of the right test framework depending upon the feasibility of application.
- Environment Configuration – We configure the environment that supports the tool to enable framework implementation.
- Framework Implementation – We implement the framework and write reusable code to expedite

the automation process.

- Automated test development with test data – we write automated scripts, mapping those scripts with test cases and creating a test suite. Tests can then be run using the Test tool with test data as input and generate test reports for the analysis of the result.
- Test Execution – Should always be supported and monitored to ensure it is done as per the scope of the automation
- Maintenance - With every build, scripts need to be added, modified or deleted to make the automation efforts optimally effective.

## 4. Expected Outcomes

- Mitigates and reduces risk in project delivery.
- Improved quality of applications that are driving the organization.
- Significantly improves project delivery success.
- Moves quality earlier in the application delivery lifecycle.
- Faster delivery timescales by embracing testing automation.
- More cost effective and repeatable.
- Enables release of functionality more frequently.

## 5. Pricing

There are several factors to consider as part of estimating the engagement level required for Quality Assurance and Testing Services. These include:

- Scope of user stories and test design cycle
- Project duration
- Scope of testing requirements (SIT, Unit, Performance, UAT etc.)
- Complexity of an application
- Number of Interfaces
- Feasibility on automating test cases
- Number of elements to be automated on screen
- Execution cycle and types of reports

Complexity Legend for Automation

Complexity	No# Test case	Hours
High	1	24
Medium	1	16
Low	1	5

By understanding the above dimensions, Aaseya can quickly provide a commercial proposal. Alternatively, Aaseya can provide a Testing service based on a Time & Materials Rate Card, priced per the attached SFIA Rate Card.

## 6. Aaseya Quality Assurance & Testing Service – Contact Information

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## 7. About Aaseya

Aaseya is a leading professional services company, specializing in Digital Transformation through the rapid delivery of Low Code and Digital Process Automation technologies. Aaseya's 600+ consultants specialize in the agile delivery of leading Low Code Software Platforms which include **Pega Systems, OutSystems and Camunda** delivering faster time to business value for their customers.

Aaseya, operates in 13 countries, working with Banking, Insurance, Manufacturing and Government organizations, delivering innovative enterprise solutions in the areas of Customer Experience, Business Operations, Legacy Modernisation, Case Management, and CRM.

Aaseya is a subsidiary of YASH Technologies, a Global System Integrator, with 8,000 employees serving 400 customers globally, including 70+ Fortune 500 clients, delivering business transformation through IT.

As a business we also have the following Security Accreditations:

- ISO27001:2013
- Cyber Essentials

Websites: [www.aaseya.com](http://www.aaseya.com), [www.yash.com](http://www.yash.com)

