

# Functional Testing Services

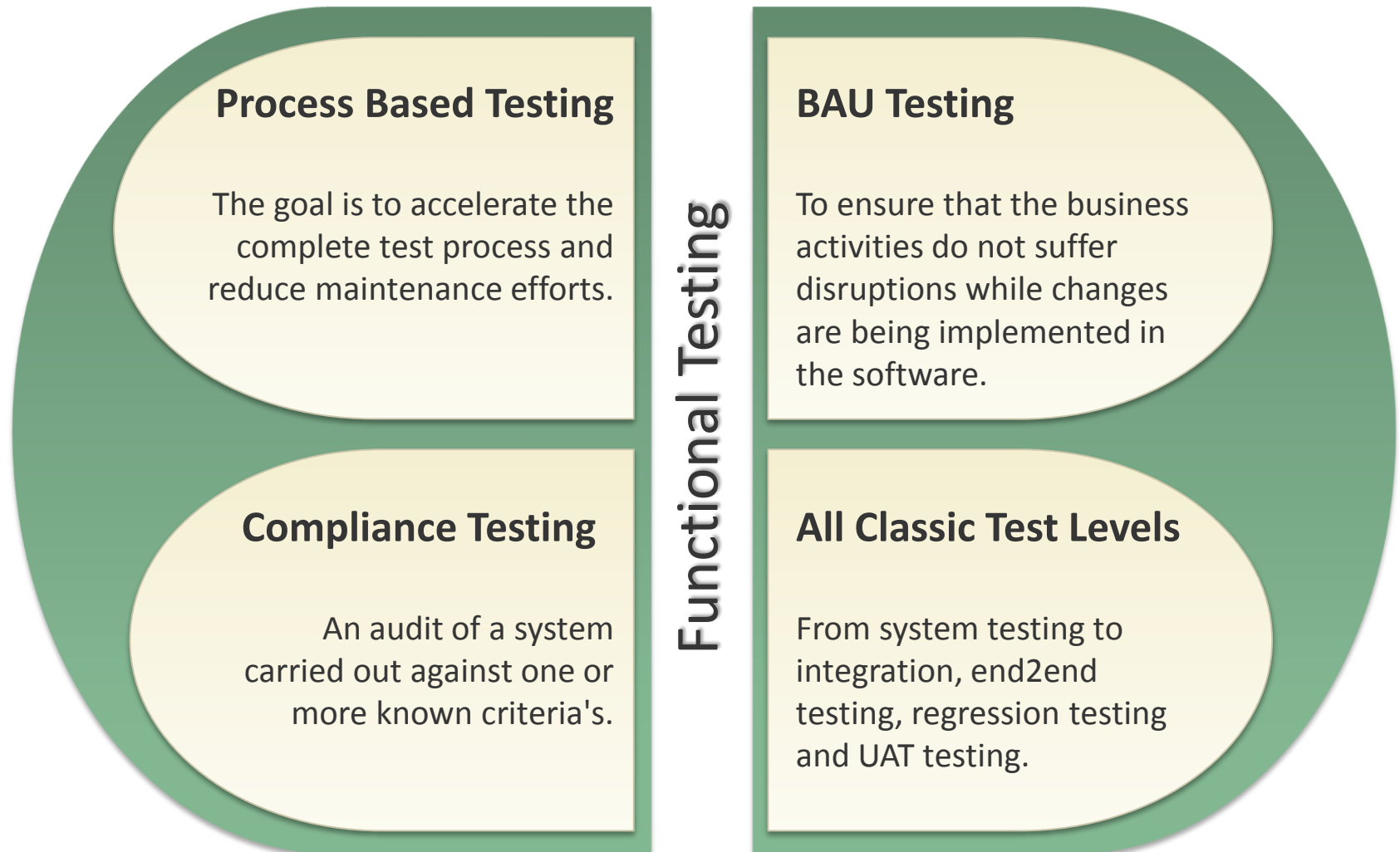
July 15, 2015

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- A - Functional Testing Process

# Functional Testing Services Overview



# All Classic Test Levels



## Testing services from SQS over all test levels

SQS uses functional testing on all classic test levels to check your software thoroughly and eliminate errors early in the design and development stage. Starting as with component testing supporting developers, via system testing, integration testing up to end2end testing, our experts work in a structured and systematic way, using the SQS PractiQ® methodology and share best practices across global networks.

Our services cover many types of testing – from **system testing** to **integration**, **end-to-end testing**, **regression testing** and **user acceptance testing**. Our services also include:

- **Test Case Specification** – We use structured methods to produce test cases for all test stages, which can then be maintained and reused.
- **Test Execution and Reporting** – We run functional tests in a controlled and systematic way. Regular reports keep you informed about progress, application quality and any risks identified.
- **SQS-TEST®/Professional** – SQS uses this tool to improve existing test case sets by analyzing and eliminating long execution times and high costs resulting from redundant testing.

# BAU Testing



## Business As Usual Testing

It is important that the business activities do not suffer disruptions while changes are being implemented in the software. This can be achieved by employing SQS's **Business As Usual (BAU) testing services**. The advantages of BAU testing are amongst others:

- **Identification of Bugs** - Because our dedicated test team checks for bugs in the application during the testing phase (Defect Fix Testing) or once the application has been released for production (Product Support Testing), the business can run as usual, even while minor corrections or enhancements/upgrades are being made to the applications.
- **Regression Suite** - To ensure that none of the testing needs are left out, our team prepares a regression suite to test the base functionality of the application. This regression suite is, in time, upgraded to align with the BAU changes.
- **Our Assurance to Customers** - SQS's team tests applications using customer specific parameters to ensure that required issues/bugs are resolved. Any defects identified during the testing are raised to the development team, re-tested and closed.

# Process Based Testing



**SQS Process Based Testing** is moving quality assurance and testing directly towards the business processes by applying test models as a source for test case generation and test automation, accelerating the complete test process and reducing maintenance efforts.

## Early quality improvement

Process and test models are derived from business and system requirements by our SQS business process designers and test analysts: Enhancing quality of business and system requirements, e.g. completeness, correctness and consistence

## SQS reusable assets for industries and products

Process and test models are selected from our SQS standard model pools for industries like banking or products like SAP or Siemens PLM Teamcenter.

## Comprehensible use

SQS Process Based Testing is applicable on different functional test objects, i.e. testing systems on different depth of integration, from functions and function scenarios via system interfaces to highly integrated end-to-end business processes.

# ComplianceTesting



**Compliance testing** is an audit of a system carried out against a known criterion. This testing is executed to find the regulatory deviations of the company from the predefined standards. Compliance related testing is conducted for banking, cards, payments and insurance.

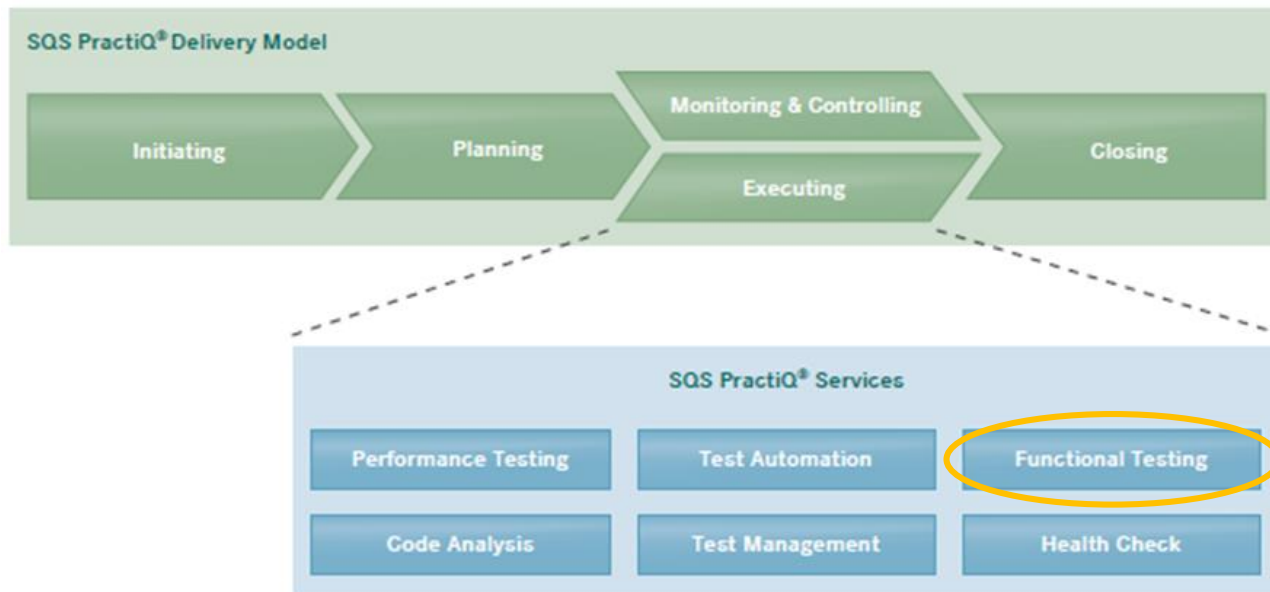
- **SQS's compliance testing services** include reviews of the organizational adherence to regulatory requirements and standards. It also involves identifying high risk areas and designing scenarios to ensure coverage of the rules by effectively mapping them to regulatory requirements.
- **Testing expertise** - SQS's expertise in testing the implementation of the new regulatory compliance requirements introduced by various legal acts and regulatory bodies like FFEIC, FATCA, Dodd Frank, etc., has helped various financial institutions to achieve conformance to regulatory changes.
- **Domain knowledge and expertise** – This combination is critical to success in compliance software testing. Our track record includes validation of compliance requirements implementation and regulatory changes for reputable US Banks, a leading multinational bank in the Middle East and one of the largest banks in Europe.

# PractiQ® Delivery Model



SQS PractiQ® delivery model assures a standard delivery in all projects executed mainly because of its standard base that assures that all project follow the same activities. At the same time, the model has enough flexibility to adapt to specific client requirements.

The figure below describes the PractiQ® delivery model. It includes 5 standard stages that support the different PractiQ® services.

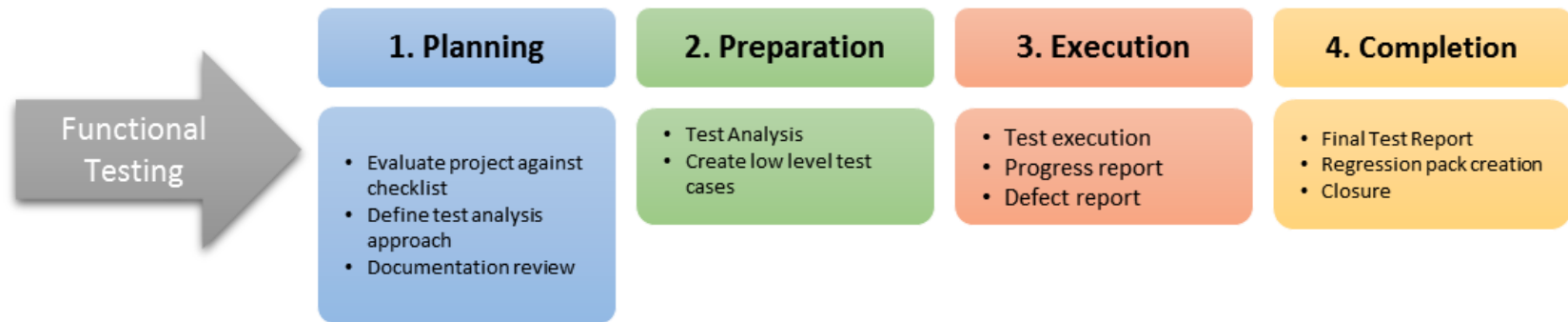




# PractiQ® Functional Testing



The figure below displays the PractiQ® process for the **functional testing** services:



These are the main stages of the functional testing process, that include the activities from test case definition to test execution and reports. The process starts with all the planning and specification in phase 1, the test analysis and specification comprehends the 2<sup>nd</sup> phase, the 3<sup>rd</sup> phase is all about execution and reporting and the final phase (4<sup>th</sup>) completes the process with the final test report and closure activities.

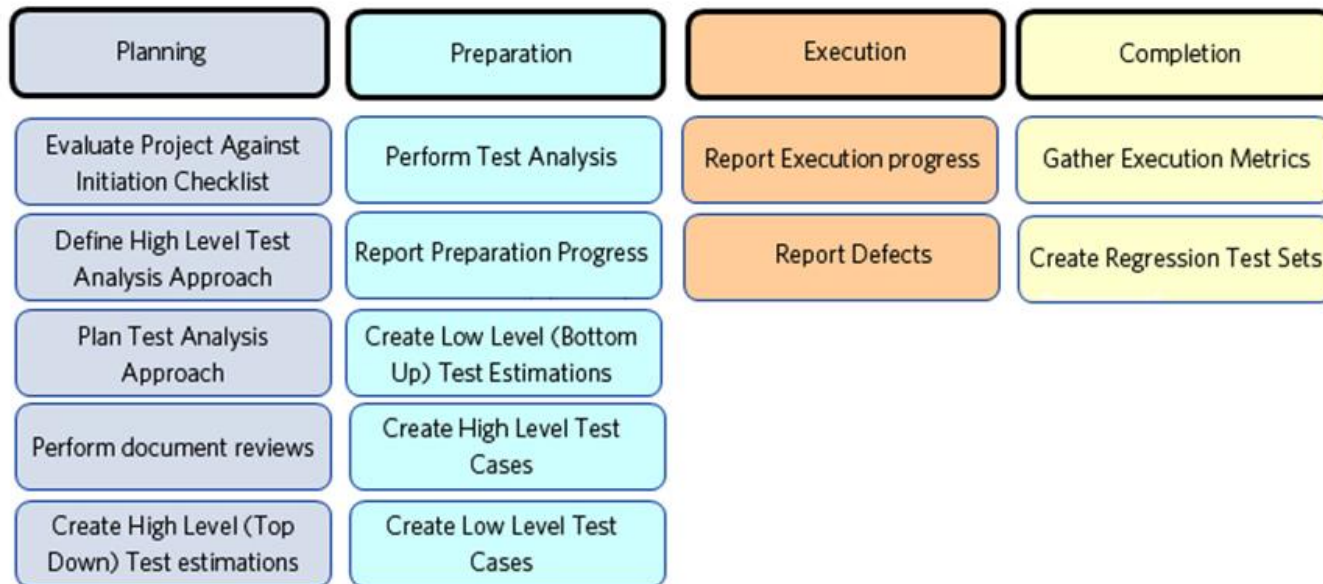
Note: The complete list of activities that can be executed in this service can be found at the end of this document, in the “Functional Testing Process” slide.

# ANNEXES

## Annex A - Functional Testing Process



This is a complete list of the activities that can be executed on a Functional Testing project/service.





Thank you