

## STT100 – Test Strategy

---

XBID

[REDACTED]

[REDACTED]

[REDACTED]

<b>1</b>	<b>Introduction .....</b>	<b>4</b>
1.1	Purpose .....	4
1.2	Intended Audience .....	4
1.3	Reference Documents .....	4
<b>2</b>	<b>Test Scope .....</b>	<b>5</b>
2.1	Solution Modules in Scope for Testing.....	5
2.2	Underlying Documentation for Testing.....	5
2.2.1	Functional Specification in Scope for Testing.....	6
2.2.2	Non Functional Specification in Scope for Testing .....	6
<b>3</b>	<b>Test Approach .....</b>	<b>7</b>
3.1	General Test Approach .....	7
3.2	Test Automation .....	7
<b>4</b>	<b>Preconditions, Dependencies and Delimitation .....</b>	<b>8</b>
4.1	Preconditions .....	8
4.2	Dependencies .....	8
4.3	Delimitations .....	8
<b>5</b>	<b>Test Process .....</b>	<b>9</b>
5.1	Test Planning and Control .....	9
5.1.1	Agree on Testing Framework .....	9
5.1.2	Create Test Phase Plan .....	10
5.1.3	Agree Test Phase Plan with Project Management .....	10
5.2	Test Analysis and Design .....	11
5.2.1	Test Analysis.....	11
5.2.2	Review Existing Test Models .....	11
5.2.3	Create New Test Models.....	12
5.2.4	Review Defined Test Models .....	12
5.2.5	Prepare Test Data .....	13
5.2.6	Prepare Test Environments .....	13
5.2.7	Prepare Test Tools .....	13
5.3	Test Implementation and Execution .....	14
5.3.1	Check Entry Criteria.....	14
5.3.2	Perform Test Stand-up .....	14
5.3.3	Execute Smoke Test .....	15
5.3.4	Execute Test Models.....	15
5.3.5	Monitor Test Progress against Test Plan .....	15
5.3.6	Prepare and Lead Weekly Test Status Meetings .....	16
5.3.7	Create Weekly Test Status Report.....	16
5.4	Evaluating Exit Criteria and Reporting .....	17
5.4.1	Check Exit Criteria.....	17
5.4.2	Create Test Phase Completion Report .....	17
5.5	Test Closing Activities.....	18
5.5.1	Create Test Completion Report .....	18
5.5.2	Test Closing Activities .....	18

<b>6</b>	<b>Release Process Description</b>	<b>19</b>
<b>7</b>	<b>Planned Test Types</b>	<b>20</b>
7.1	System Test	20
7.2	Functional Test	20
7.3	Performance Test	20
7.4	System Integration Test	20
7.5	Security Test	20
7.6	Smoke Test	20
7.7	Release Test	20
7.8	Re-test	21
7.9	Shakedown Test	21
7.10	Regression Test	21
7.11	Infrastructure Test	21
<b>8</b>	<b>Detailed Description of Test Phases</b>	<b>22</b>
8.1.1	Unit Test LevelUnit Tests (XBID Solution)	22
8.1.2	Unit Tests (Optional Trading Solution)	22
8.1.3	System Test – FAT Phase I	23
8.1.4	System Test – FAT Phase II	24
8.1.5	Integration Acceptance Test – IAT	24
8.1.6	UAT Phase I – Functional Tests	25
8.1.7	UAT Phase II – Performance Tests	25
8.1.8	UAT Phase III – Integration Tests	25
8.1.9	UAT Phase IV – Simulation Tests	26
8.1.10	UAT Phase V – Emergency Plan Simulation	26
<b>9</b>	<b>Environments</b>	<b>27</b>
9.1	System Integration Environments	27
9.2	XBID Testing Environment	27
9.3	Simulation/Training Environment	27
9.4	Production Environment	27
<b>10</b>	<b>Roles and Responsibilities</b>	<b>28</b>
10.1	PXs Test Manager	28
10.2	DBAG Test Manager	28
10.3	PXs Tester	28
10.4	DBAG Tester	28
10.5	DBAG Development Lead	28
10.6	DBAG Developer	29
<b>11</b>	<b>Defect Reporting and Tracking</b>	<b>30</b>

## 1 Introduction

This document details the test strategy for the project as described in the document PER100 Project Quality Plan. It explains the three quality gates of testing: The unit/developer tests, the factory tests as well as the user acceptance tests. This document serves as a management tool describing the overall test strategy as well as the various test methodologies that will be applied for each of the planned test phases.

**Note:** The planning details for each test phase will be described in the actual test plan of the respective test phase, not in this document.

### 1.1 Purpose

This document provides details on:

- The test scope for functional and non-functional tests.
- The preconditions, dependencies and constraints taken into account.
- The testing principles underlying the test approach and process.
- The high level approach taken for the tests including the test levels and types of testing planned.
- The test process applied.
- A clear definition of roles and responsibilities throughout the testing process.
- The test types applied for the defined test phases.

### 1.2 Intended Audience

The intended audience is the following:

- Project management,
- Project team members,
- DBAG's contractual party, the PXs and PX project stakeholders.

### 1.3 Reference Documents

[Redacted]

[Redacted]

[Redacted]

## 2 Test Scope

[REDACTED]

### 2.1 Solution Modules in Scope for Testing

[REDACTED]

[REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

[REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

[REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

### 2.2 Underlying Documentation for Testing

[REDACTED]

[Redacted content]



## 4 Preconditions, Dependencies and Delimitation

[Redacted]

### 4.1 Preconditions

[Redacted]

### 4.2 Dependencies

[Redacted]

### 4.3 Delimitations

[Redacted]

























## 6 Release Process Description

[Redacted]

[Redacted]

[Redacted]

## 7 Planned Test Types

[Redacted]

### 7.1 System Test

[Redacted]

### 7.2 Functional Test

[Redacted]

### 7.3 Performance Test

[Redacted]

### 7.4 System Integration Test

[Redacted]

### 7.5 Security Test

[Redacted]

### 7.6 Smoke Test

[Redacted]

### 7.7 Release Test

[Redacted]

### 7.8 Re-test

[Redacted]

### 7.9 Shakedown Test

[Redacted] e.

### 7.10 Regression Test

[Redacted]

### 7.11 Infrastructure Test

[Redacted]

## 8 Detailed Description of Test Phases

[Redacted text block]

[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]

[Redacted text block]

[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]









[Redacted]					
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]					
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]

[Redacted]

[Redacted]					
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]					

[Redacted]

[Redacted]					
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]					
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]

## 9 Environments

[Redacted]

[Redacted]

### 9.1 System Integration Environments

[Redacted]

### 9.2 XBID Testing Environment

[Redacted]

### 9.3 Simulation/Training Environment

[Redacted]

### 9.4 Production Environment

[Redacted]

## 10 Roles and Responsibilities

[REDACTED]

### 10.1 PXs Test Manager

[REDACTED]

### 10.2 DBAG Test Manager

[REDACTED]

### 10.3 PXs Tester

[REDACTED]

### 10.4 DBAG Tester

[REDACTED]

### 10.5 DBAG Development Lead

[REDACTED]

[Redacted]

### 10.6 DBAG Developer

[Redacted]

## 11 Defect Reporting and Tracking

