

**Product**  
**System Test Plan**  
**Release Version xx.xx.xx**

Document

|             |  |          |   |
|-------------|--|----------|---|
| ID - Nummer |  | Version: | 0 |
| Filename    |  |          |   |

Creation

| Project Role | Name | Department | Signature | Date |
|--------------|------|------------|-----------|------|
| Test Manager |      |            |           |      |

Review &  
Approval

|    |  |  |  |  |
|----|--|--|--|--|
| QA |  |  |  |  |
|----|--|--|--|--|

Changes

| Version | Name | Reason for Change | Date |
|---------|------|-------------------|------|
| 00      |      | First Version     |      |
|         |      |                   |      |
|         |      |                   |      |

|                              |       |
|------------------------------|-------|
| <b>1 Purpose</b>             | ..... |
| <b>2 Scope</b>               | ..... |
| <b>3 System Description</b>  | ..... |
| <b>4 Acceptance Criteria</b> | ..... |
| <b>5 Test Procedure</b>      | ..... |
| 5.1 Test Strategy            | ..... |
| 5.2 Test Intensity           | ..... |
| <b>6 Resources</b>           | ..... |
| <b>7 Test Environment</b>    | ..... |
| 7.1 Computer Systems         | ..... |
| 7.2 Interfaces               | ..... |
| 7.3 Measuring equipment      | ..... |
| <b>8 Test Case List</b>      | ..... |
| <b>9 References</b>          | ..... |

## 1 Purpose

This document describes the implementation of the system verification and validation according to the strategy outlined and defined in the validation section of the Product Change Order (PCO) document. It includes all the information necessary to plan and control the test effort for the given system.

## 2 Scope

This test plan relates to the following System (i.e. object under test):

|                |                |
|----------------|----------------|
| System Name    | ... product... |
| System Version | XX.XX.XX       |
| Test Run       | 3              |

The tested version is labeled **xxxx**.

## 3 System Description

Please refer to corresponding PCO (Ref. [1]).

## 4 Acceptance Criteria

In general, a test case is "PASSED" when the real outcome corresponds to the expected outcome, otherwise the test case is marked as "FAILED". Expected outcomes are defined separately in each test case.

- a 100% test coverage is required (i.e. all implemented changes need to be tested at least once)
- no critical defects are tolerated

## 5 Test Procedure

### 5.1 Test Strategy

According to the impact analysis of development of made fixes a specific test set is defined for this test run.

At least 100% of failed test cases will be retested.

In addition to the system validation, localized GUI masks are validated in an individual process.

### 5.2 Test Intensity

The criticality of any test case is rated, documented and printed with each test case document.

A 100% requirement coverage is needed, that means that there is in minimum one test case per specification.

| Test Intensity | Test Case Types applied   |
|----------------|---|
| Extended       | <ul style="list-style-type: none"> <li>- Valid Input Tests (generate at least 1 possible output or event using valid inputs)</li> </ul> <p>Plus one or more of the following approaches:</p> <ul style="list-style-type: none"> <li>- Verifying boundary values for each parameter; <ul style="list-style-type: none"> <li>o Entering an invalid value for each parameter;</li> <li>o Special input values: 0, negative numbers, wrong format, accented characters, empty fields, extremely high or low values;</li> </ul> </li> <li>- Try as much as possible not allowed user actions or events</li> <li>- Interfering/Interrupting events or user actions outside the specified behavior, e.g. removing cables, closing browser window, pushing buttons several times, removing instrument during data transfer, time-outs, parallel browser sessions, etc.</li> <li>- Error Guessing</li> </ul> |
| Standard       | <ul style="list-style-type: none"> <li>- Valid Input Tests (generate at least 1 possible output or event using valid inputs)</li> </ul>   |

## 6 Resources

| Role             | Responsibility   | Persons |
|------------------|--|---------|
| Test Manager     | <ul style="list-style-type: none"> <li>- coordination of design verification &amp; validation</li> <li>- management of resources for validation</li> </ul> |         |
| Test Designer    | <ul style="list-style-type: none"> <li>- definition of test cases</li> <li>- supervision of the testing and validation activities</li> </ul>               |         |
| Group of Testers | <ul style="list-style-type: none"> <li>- execution of test cases</li> <li>- reporting of test results</li> </ul>   |         |

## 7 Test Environment

In order to successfully and reproducibly conduct the technical validation the following provisions and preconditions have to be established:

### 7.1 Computer Systems

| Test computer systems | Product Server  | Product Client   |                                      |
|-----------------------|---|--|--------------------------------------|
|                       |   | Windows Client   | WebCard Client                       |
| Operation System      | Windows XP MUI  | Windows XP MUI   | Windows OS, MS Internet Explorer 6.x |
| Test Engine           | "test-server" (T-CR developer network), Pentium 4, 3.00 GHz, 1 GB RAM, 2 x HD á 75 GB | Test Clients, VMWare Workstation on each test work place; 500 MB RAM | MS Internet Explorer 6.x             |

Standard System Test Computer Equipment

| Server Name | IP-Address | Version/Configuration <sup>9)</sup> |
|-------------|------------|-------------------------------------|
|             |            |                                     |

|                       |                               |                      |
|-----------------------|-------------------------------|----------------------|
| Test computer systems | Citrix Presentation Server on | Product Client using |
|-----------------------|-------------------------------|----------------------|

|                  | Product Client   | Citrix Access Platform   |                |
|------------------|--|--|----------------|
|                  |  | Windows Client   | WebCard Client |
| Operation System | Windows 2003 MUI   | According Citrix specification   |                |
| Test Engine      | test-server; Pentium 4, 2.80 GHz, 1 GB RAM, 2 x HD á 75 GB | Test Clients, VMWare Workstation on each test work place; Windows XP, 500 MB RAM |                |

Citrix Solutions System Test Computer Equipment

| Server Name | IP-Address | Version/Configuration <sup>9)</sup> |
|-------------|------------|-------------------------------------|
|             |            |                                     |
|             |            |                                     |
|             |            |                                     |
|             |            |                                     |

With dump: realistic test data is imported into the DBMS.

| Client Name | IP-Address | Version/Configuration <sup>9)</sup> |
|-------------|------------|-------------------------------------|
|             |            |                                     |

The different configurations of the test servers are necessary to match the requirements for individual test cases. Test cases that require realistic test data should be applied on the *product-Test1* server.

All servers use the the identical installation EXE.

## 7.2 Interfaces

- Nport-Server

## 7.3 Measuring equipment

- Configured barcode scanner.

## 8 Test Case List

Test Cases are printed as PDF documents (System Test Case Definitions). A print of each approved System Test Case Definitions document is provided to the test person assigned to carry out the tests. This document is then used to carry out the results and record the specific system test.

The table below lists the entire System Test Case Definitions documents approved and used for system testing ([2]).

| Test Def. ID       | Test Case Document | Remark |
|--------------------|--------------------|--------|
| Product version... |                    |        |

## 9 References

| Ref. | Title                      | ID-Number    | Version |
|------|----------------------------|--------------|---------|
| 1    | Product Change Order (PCO) |              | 0       |
| 2    | System Test Cases          | 10082299 RER | 0       |
|      |                            |              |         |
|      |                            |              |         |
|      |                            |              |         |

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|