Product

System Test Plan

Release Version xx.xx.xx

Document	ID - Nummer			Version:	0
	Filename				

	Project Role	Name	Department	Signature	Date
Creation	Test Manager				

Review & Approval	QA				

Changes	Version	Name	Reason for Change		Date
	00		First Version		

1 Purpose

This document describes the implementation of the system verification and validation according 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	- Valid Input Tests (generate at least 1 possible output or event using valid inputs)
	Plus one or more of the following approaches:
	- Verifying boundary values for each parameter;
	    o Entering an invalid value for each parameter;
	    o Special input values: 0, negative numbers, wrong format, accented characters, empty fields, extremely high or low values;
	- Try as much as possible not allowed user actions or events
	- 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.
	- Error Guessing

Standard	- Valid Input Tests (generate at least 1 possible output or event using valid inputs)

6 Resources

Role	Responsibility	Persons
Test Manager	- coordination of design verification & validation - management of resources for validation	
Test Designer	- definition of test cases - supervision of the testing and validation activities	
Group of Testers	- execution of test cases - reporting of test results	

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[*)]

Test computer systems	**Citrix Presentation Server** on **Product Client**	**Product Client** using **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[*)]

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

Client Name	IP-Address	Version/Configuration[*)]

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