Project <Project Name>

<System Name>

Software/System Test Procedure (STPr) for [TBD]

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CDRL: |  | Spec Refs: |  |  |  |  |  |
| <CDRL> |  | <Spec Refs> |  |  |  |  |  |
| Prepared: |  | <Prepared Name> |  |  |  | signed: |  |
|  |  | <Prepared Title> |  | Signature |  | yyyy-mm-dd |  |
| Verified: |  | <Verified Name> |  |  |  | signed: |  |
|  |  | <Verified Title> |  | Signature |  | yyyy-mm-dd |  |
| Approved: |  | <Approved Name> |  |  |  | signed: |  |
|  |  | <Approved Title> |  | Signature |  | yyyy-mm-dd |  |
| This document and its contents are the property of ANNAX information systems AG or its subsidiaries. The reproduction, distribution, utilization or the communication of this document or any part thereof, without express authorisation is strictly prohibited. Offenders will be held liable for the payment of damages. | | |  | Identity Number: |  | <Document Number> |  |
|  | Revision: |  | <Revision Level> |  |
|  | Status: |  | Draft |  |
|  | Date (yyyy-mm-dd): |  | 2011-08-04 |  |

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Revision | Date  (yyyy-mm-dd) | Initials | Description of Changes |
|  |  |  | You may want to put „First issue“ here for the first version of the document |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table of Contents

[General Information 5](#_Toc300222736)

[Part 1: Software/System Test Report 7](#_Toc300222737)

[R 1 Test Summary Report Identifier 8](#_Toc300222738)

[R 2 Summary 8](#_Toc300222739)

[R 3 Variances 9](#_Toc300222740)

[R 4 Comprehensiveness Assessment 9](#_Toc300222741)

[R 5 Summary of Results 9](#_Toc300222742)

[R 6 Evaluation 10](#_Toc300222743)

[R 7 Summary of Activities 10](#_Toc300222744)

[R 8 Approvals 10](#_Toc300222745)

[Part 2: Software/System Test Procedure 11](#_Toc300222746)

[1 Test Procedure Specification Identifier 12](#_Toc300222747)

[2 Purpose 13](#_Toc300222748)

[3 Special Requirements 14](#_Toc300222749)

[4 Procedure Steps 15](#_Toc300222750)

[4.1 Log 15](#_Toc300222751)

[4.2 Set Up 15](#_Toc300222752)

[4.3 Start 15](#_Toc300222753)

[4.4 Proceed 15](#_Toc300222754)

[4.5 Measure 15](#_Toc300222755)

[4.6 Shutdown 15](#_Toc300222756)

[4.7 Restart 15](#_Toc300222757)

[4.8 Stop 15](#_Toc300222758)

[4.9 Wrap Up 15](#_Toc300222759)

[4.10 Contingencies 16](#_Toc300222760)

[5 Test Cases 17](#_Toc300222761)

[5.1 <Test Case Name> 17](#_Toc300222762)

[6 Definitions, Acronyms, and Abbreviations 18](#_Toc300222763)

[7 References 19](#_Toc300222764)

[Appendix A: [TBD Appendix Title] 20](#_Toc300222765)

List of Figures

[Figure 1: Caption of a Sample Figure 6](#_Toc300222730)

[Figure 2: [TBD - Caption of Sample Figure] 12](#_Toc300222731)

List of Tables

[Table 1: Failure Classes 5](#_Toc300222732)

[Table 2: Documents Referenced Within the Test Report 8](#_Toc300222733)

[Table 3: List of Acronyms and Definitions 18](#_Toc300222734)

[Table 4: List of References 19](#_Toc300222735)

General Information

By filling this sheet, the Software/System Test Procedure (STPr) will become a Software/System Test Report (SysTR), with an own document number.

Test Reporting Instructions

1. Fill all test cases described in Section 5 (as far as applicable for the current test phase).. Mark the appropriate results (e.g. “Not tested”, “Passed”, “Failed” etc.) by entering an “x”. Add remarks / problem descriptions.
2. If a test case has failed:
   1. Fill in the Mantis ID after entering an issue in Mantis (ANNAX bug tracking system)
   2. Mark the appropriate failure class (1, 2, or 3) by entering an “x”. The failure classes are defined as shown in Table 1.
3. Fill Part 1 of this document

Table : Failure Classes

| Failure Class | Failure Class Criteria | Test Suspension |
| --- | --- | --- |
| 1 - Not operation disturbing failures | Major function of software remains granted. Adverse effect is marginal | The test step will be approved with comments and the test will be continued. After failure correction, the respective test step will be repeated. Further test steps potentially impacted by the failure will be repeated. |
| 2 - Operation disturbing failures | Adverse effect of failure to software function. A defined requirement is not fulfilled, e.g. layout, sequence or timing failure. This class includes particularly failures resulting in wrong passenger information. | The test step will be disapproved, but the test will be continued. After failure correction, the respective test step will be repeated.  Further test steps potentially impacted by the failure will be repeated. |
| 3 - Test preventing failures | The adverse affect is not limit to the current step. Impact on already approved or subsequent test steps is likely.  Function of the software is not granted anymore. | The test step will be disapproved and the test phase will be suspended until the failure has been corrected.  After failure correction, all concerned and depending test steps will be repeated. |

[TBD – Make sure you have the correct master template (ANNAX Template for Technical Documents.dotm) correctly installed in the correct location (see hints in the master template).

Please evoke the “Document Information” dialog by pressing **SHIFT+F10** in order to enter document information like e.g. document title and document number.

This STPr template contains **explanatory hidden text**. Pressing **ALT+H** will **toggle on/off** hidden text. Please remove this paragraph as well as all hidden text in the document before or when you finalize the STPr.]

Removal of hidden text is supported by a Word macro: Pressing SHIFT+F10 will evoke a dialog. Clicking „Finalize document“ will remove all hidden text automatically.

Please leave the structure of the SRS – if not otherwise stated – unchanged. This will facilitate re-use of document content in future projects and is a prerequisite for conformance of the SRS with IEEE Standards 829-1998 and 1558-2004.

Please move/change/delete the example figure and the caption below.



Figure 1: Caption of a Sample Figure

Part 1: Software/System Test Report

1. Test Summary Report Identifier

Editorial comment: The headline numbering „R 1, R 2, …“ is used in order to have an independent numbering in Part 1 of the document. Thus, conformity with IEEE 1558 / IEEE 829 is striven for: Those standards define headlines with specific number and headline text for both document types „Software Test Procedure“ und „Software Test Report”, which are here united within one document.

Some of the subsequent remarks are marked with [I829] and then refer to IEEE Std 829-1998 - IEEE Standard for Software Test Documentation.

[I829] S11.2.1: “ Specify the unique identiﬁer assigned to this test summary report“.

Zugehörige Fragen aus der Checkliste eines Kunden von ANNAX:

1. “Is the unique identifier assigned to this test report specified?

The Test Report must have a unique document number. The Test Procedure (without fill Part 1 - Test Report) must have a document number different from the the document number of the Test Report.

1. Summary

[I829] S11.2.2: “ Summarize the evaluation of the test items. Identify the items tested, indicating their version/revision level.

Indicate the environment in which the testing activities took place.

For each test item, supply references to the following documents if they exist: test plan, test design speciﬁca-tions, test procedure speciﬁcations, test item transmittal reports, test logs, and test incident reports.“

Zugehörige Fragen aus der Checkliste eines Kunden von ANNAX:

1. Is the evaluation of the test items summarized?
2. Are the tests items tested identified, including their version number?
3. Are the references to other software test documentation supplied, including at least the STP and STPr

Evaluation of tests: Were major failures found? Are there major open issues? Recommendations, e.g. related to usage of the software?

Table : Documents Referenced Within the Test Report

| Doc ID | Description |
| --- | --- |
|  |  |
|  | [e.g. Software Test Plan] |
|  | [e.g. Software Test Procedure] |
|  |  |
|  |  |
|  |  |

1. Variances

[I829] S11.2.3: “ Report any variances of the test items from their design speciﬁcations. Indicate any variances from the test plan, test designs, or test procedures. Specify the reason for each variance.“

Zugehörige Fragen aus der Checkliste eines Kunden von ANNAX:

1. If applicable, are the variances of the test items from their specifications, plan or procedure are reported?
2. If there is variance, is the reason for such variance specified?
3. Comprehensiveness Assessment

[I829] S11.2.4: “ Evaluate the comprehensiveness of the testing process against the comprehensiveness criteria speciﬁed inthe test plan (4.2.6) if the plan exists. Identify features or feature combinations that were not sufﬁciently tested and explain the reasons.“

Zugehörige Fragen aus der Checkliste eines Kunden von ANNAX:

1. Is the comprehensiveness of the testing process against the comprehensiveness criteria specified in the STP section 6 evaluated?
2. If applicable, are features that were not sufficiently tested identified, including the reasons?
3. Summary of Results

[I829] S11.2.5: “ Summarize the results of testing. Identify all resolved incidents and summarize their resolutions. Identify all unresolved incidents.“

Zugehörige Fragen aus der Checkliste eines Kunden von ANNAX:

1. (1) Are the results of testing summarized?
2. (2) Are all resolved incidents identified, including their resolution?
3. (3) Are all unresolved incidents identified?
4. Evaluation

[I829] S11.2.6: “ Provide an overall evaluation of each test item including its limitations. This evaluation shall be based upon the test results and the item level pass/fail criteria. An estimate of failure risk may be included.“

Zugehörige Fragen aus der Checkliste eines Kunden von ANNAX:

“(1) Is an overall evaluation of the test results, including pass/fail criteria provided?”

1. Summary of Activities

[I829] S11.2.7: „Summarize the major testing activities and events. Summarize resource consumption data, e.g., total stafﬁng level, total machine time, and total elapsed time used for each of the major testing activities.”

Zugehörige Fragen aus der Checkliste eines Kunden von ANNAX:

“(1) Are the major testing activities and events summarized?”

1. Approvals

[I829] S11.2.8: “ Specify the names and titles of all persons who must approve this report. Provide space for the signatures and dates.“

|  |  |
| --- | --- |
| Name of Tester |  |
| Place of Test |  |
| Date and Signature of Tester |  |

Part 2: Software/System Test Procedure

# Test Procedure Specification Identifier

[TBD – Make sure you have the correct master template (ANNAX Template for Technical Documents.dotm) correctly installed in the correct location (see hints in the master template). This STPr template contains **explanatory hidden text**. Pressing **ALT+H** will **toggle on/off** hidden text. Please remove this paragraph as well as all hidden text in the document before or when you finalize the STPr.]

Removal of hidden text is supported by a Word macro: Pressing SHIFT+F10 will evoke a dialog. Clicking „Finalize document“ will remove all hidden text automatically.

Please leave the structure of the STPr – if not otherwise stated – unchanged. This applies at least to sections 1 to 4. This will facilitate re-use of document content in future projects and is a prerequisite for conformance of the STPr with IEEE Standards 829-1998 [I829] and 1558-2004 [I1558].

[I829] S7.1: „Additional sections, if required, may be included at the end. If some or all of the content of a section is in another document, then a reference to that material may be listed in place of the corresponding content. The referenced material must be attached to the test procedure specification or available to users of the procedure specification.“

Required content of this first section:

[I829] S7.2.1

„Specify the unique identifier assigned to this test procedure specification. Supply a reference to the associated test design specification.“

Please move/change/delete the example figure and the caption below.



Figure : [TBD - Caption of Sample Figure]

# Purpose

[I829] S7.2.2: „Describe the purpose of this procedure. If this procedure executes any test cases, provide a reference for each of them.

In addition, provide references to relevant sections of the test item documentation (e.g., references to usage procedures).“

[I1558] A.13: „In addition, identify intended audience.“

# Special Requirements

[I829] S7.2.3: “Identify any special requirements that are necessary for the execution of this procedure. These may include prerequisite procedures, special skills requirements, and special environmental requirements.”

# Procedure Steps

[I829] S7.2.4: „Include the steps in [...]4.1 through [...].4.10 as applicable.“

## Log

I829] S7.2.4.1: „Describe any special methods or formats for logging the results of test execution, the incidents observed, and any other events pertinent to the test.“

## Set Up

I829] S7.2.4.2: „Describe the sequence of actions necessary to prepare for execution of the procedure.“

## Start

I829] S7.2.4.3: „Describe the actions necessary to begin execution of the procedure.“

## Proceed

I829] S7.2.4.4: „Describe any actions necessary during execution of the procedure.“

## Measure

I829] S7.2.4.5: „Describe how the test measurements will be made (e.g., describe how remote terminal response time is to be measured using a network simulator).

## Shutdown

I829] S7.2.4.6: „Describe the actions necessary to suspend testing, when unscheduled events dictate.“

## Restart

I829] S7.2.4.7: „Identify any procedural restart points and describe the actions necessary to restart the procedure at each of these points.

## Stop

I829] S7.2.4.8: „Describe the actions necessary to bring execution to an orderly halt.“

## Wrap Up

I829] S7.2.4.9: „Describe the actions necessary to restore the environment.“

## Contingencies

I829] S7.2.4.10: „Describe the actions necessary to deal with anomalous events that may occur during execution.“

# Test Cases

## <Test Case Name>

| **Test Case ID** ► | | TC NNN | | **Prerequisites►** | |  | | | | | | | **Test Step Result** | | | **Remark / Problem Description** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Requirement** | | **Test Step No.** | | **Test Step Description** | | | | | **Expected Result** | | | | **Not Tested** | **Pass** | **Fail** |
|  | |  | |  | | | | |  | | | |  |  |  |  |
|  | |  | |  | | | | |  | | | |  |  |  |  |
|  | |  | |  | | | | |  | | | |  |  |  |  |
|  | |  | |  | | | | |  | | | |  |  |  |  |
|  | |  | |  | | | | |  | | | |  |  |  |  |
|  | |  | |  | | | | |  | | | |  |  |  |  |
| **Test Required For** ► | **TBD** | | **TBD** | | **TBD** | | **TBD** | **TBD** | **Test Case Result** | | | **Mantis ID** | **Failure Class** | | | **Remark / Problem Description** |
|  |  | |  | |  | |  |  | **Not Tested** | **Pass** | **Fail** | **1** | **2** | **3** |
| **Tester Name** | | | | **Date of Test (YYYY-MM-DD)** | | | | |
|  | | | |  | | | | |  |  |  |  |  |  |  |  |

# Definitions, Acronyms, and Abbreviations

The following acronyms and definitions are used within this STPr.

Please add all acronyms and their definitions. Delete all acronyms not used in this document from the table before finalizing the document.

Table : List of Acronyms and Definitions

| Acronym | Definition |
| --- | --- |
|  |  |
| IEEE | Institute of Electrical and Electronics Engineers |
| SCI | Software Configuration Item |
| SDD | Software Design Description |
| SRS | Software Requirements Specification |
| STPr | Software Test Procedure |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# References

The following documents are referenced within this STPr:

Please add all documents referenced in this document. Use the format [...] for the references.

Table : List of References

| Doc ID | Document Description |
| --- | --- |
| TBD |  |
| [I829] | IEEE Std 829-1998 - IEEE Standard for Software Test Documentation |
| [I1558] | IEEE Std 1558-2004 - IEEE Standard for Software Documentation for Rail Equipment and Systems |
|  |  |

Appendix A: [TBD Appendix Title]

Please delete the headline if no appendix is used.