Standard-Testplan based on IEEE 829

Testconcept

Version: X.X

Datum: XX.XX.XXXXTable of Contents

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Document Information

Versionen

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| **Version** | **Date** | **Description** |
| X.X | XX.XX.XXXX | For internal communication |

Associated Documents

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| --- | --- | --- | --- |
| **Title** | **Comment** | **Author** | **Date** |
|  |  |  |  |

Reference Documents

|  |  |
| --- | --- |
| **Description** | **Source** |
|  | IEEE Standard for Software Test Documentation (ANSI/IEEE Std. 829-1991) |

Contacts

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| **Name** | **Roll** |
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Objective

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Target grup

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# Test plan identifier

Specify the unique identifier assigned to this test plan. For documents published on the Web, the URL of the document may be used.

# Introduction

Set goals and expectations of the testing effort. Summarize the software items and software features to be tested. The purpose of each item and its history may be included.

References to the following documents, if they exist, are required in the highest-level test plan:

* Project authorization
* Project plan
* Quality assurance plan
* Configuration management plan
* Relevant policies
* Relevant standards

In multilevel test plans, each lower level plan must reference the next higher-level plan.

# Test items

Identify the test items including their version/revision level. Also specify characteristics of their transmittal media which impact hardware requirements or indicate the need for logical or physical transformations before testing can begin. (An example would be that the code must be placed on a production server or migrated to a special testing environment separate from the development environment.)

Supply references to the following item documentation if it exists:

* Requirements specification
* Design specification
* User guide
* Operations guide
* Installation guide

Reference any incident reports relating to the test items.

Items that are to be specifically excluded from testing may be identified.

# Features to be tested

Identify all software features and combinations of software features to be tested. Identify the test design specification associated with each feature and each combination of features.

# Features not to be tested

Identify all features and significant combinations of features which will not be tested and the reasons.

# Approach

Describe the overall approach to testing. For each major group of features or feature combinations, specify the approach that will ensure that these feature groups are adequately tested. Specify the major activities, techniques, and tools that are used to test the designated groups of features.

The approach should be described in sufficient detail to permit identification of the major testing tasks and estimation of the time required for each one.

Specify the minimum degree of comprehensiveness desired. Identify the techniques that will be used to judge the comprehensiveness of the testing effort. Specify any additional completion criteria. The techniques used to trace requirements should be specified.

Identify significant constraints on testing such as test item availability, testing-resource availability, and deadlines.

Depending on the scope of the test plan, the following activities might be discussed:

* Testing done before the code freeze
* Testing done after the code freeze
* Individual testing (programmer and buddy testing)
* Group testing (testing performed by test teams)
* Integration testing (testing interfaces with other applications)
* Customer beta testing
* Customer acceptance testing

# Item pass/fail criteria

Specify the criteria to be used to determine whether each test item has passed or failed testing. If no basis exists for passing or failing test items, explain how such a basis could be created and what steps will be taken to do so.

# Suspension criteria and resumption requirements

Specify the criteria used to suspend all or a portion of the testing activity on the test items associated with this plan. Specify the testing activities that must be repeated, when testing resumes.

# Test deliverables

Identify the deliverable documents. The following documents should be included:

* Test plan
* Test design specifications
* Test case specifications
* Test procedure specifications
* Test item transmittal reports
* Test logs
* Test incident reports
* Test summary reports

Test input data and test output data should be identified as deliverables.

Test tools may also be included.

# Testing tasks

Identify the set of tasks necessary to prepare for and perform testing. Identify all task dependencies and any special skills required.

# Environmental needs

Specify both the necessary and desired properties of the test environment. This specification should contain the physical characteristics of the facilities including:

* the hardware
* the communications and system software
* the mode of usage (for example, stand-alone)
* any other software or supplies needed to support the test

Also, specify the level of security which must be provided for the test facilities, system software, and proprietary components such as software, data, and hardware.

Identify special test tools needed. Identify any other testing needs (for example, publications or office space.) Identify the source for all needs that are not currently available to the test group.

# Responsibilities

Identify the groups responsible for managing, designing, preparing, executing, witnessing, checking, and resolving. In addition, identify the groups responsible for providing the test items identified in section 3 and the environmental needs identified in 11.

# Staffing and training needs

Specify staffing needs by skill level. Identify training options for providing necessary skills.

# Schedule

Include test milestones identified in the software project schedule as well as all item transmittal events.

Define any additional test milestones needed. Estimate the time required for each testing task. Specify the schedule for each testing task and test milestone. For each testing resource (that is, facilities, tools, and staff), specify its periods of use.

# Risks and contingencies

Identify the high-risk assumptions of the test plan. Specify contingency plans for each.

# Approvals

Specify the names and titles of all persons who must approve this plan. Provide space for the signatures and dates.