Chapter 8

Templates and Models

This annex lists all documentation templates proposed in the frame of the test activities.

Use of these templates without previous thought as to advantages and risks of customization can have an adverse effect on your test project. It is thus highly recommended to evaluate what level of detail is necessary in these documents.

8.1. Master test plan

The master test plan is considered by IEEE 829-1998 to have the same structure as the test plan (see section 8.2). IEEE 829-2008[1] is different and represented hereafter:

1. Introduction

   1.1. Document identifier

   1.2. Scope

   1.3. References

   1.4. System overview and key features

   1.5. Test overview

      1.5.1. Organization

1 IEEE829:2008 and IEEE829:1998 and its content are copyright of IEEE. These are used here only as extracts for example purposes.

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1.5.2. Master test schedule

1.5.3. Integrity level schema

1.5.4. Resources summary

1.5.5. Responsibilities

1.5.6. Tools, techniques, methods, and metrics

2. Details of the master test plan

2.1. Test processes including definition of test levels

2.1.1. Process: management

2.1.1.1. Activity: management of test effort

2.1.2. Process: acquisition

2.1.2.1. Activity: acquisition support test

2.1.3. Process: supply

2.1.3.1. Activity: planning test

2.1.4. Process: development

2.1.4.1. Activity: concept

2.1.4.2. Activity: requirements

2.1.4.3. Activity: design

2.1.4.4. Activity: implementation

2.1.4.5. Activity: test

2.1.4.6. Activity: installation/checkout

2.1.5. Process: operation

2.1.5.1. Activity: operational test

2.1.6. Process: maintenance

2.1.6.1. Activity: maintenance test

2.2. Test documentation requirements

2.3. Test administration requirements

2.4. Test reporting requirements

3. General

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3.1. Glossary

3.2. Document change procedures and history

8.2. Test plan

8.2.1. *Test plan as per IEEE 829-1998*[2]

1. Test plan identifier
2. Introduction
3. Test items
4. Features to be tested
5. Features not to be tested
6. Approach
7. Item pass/fail criteria
8. Suspension criteria and resumption requirements
9. Test deliverables
10. Testing tasks
11. Environmental needs
12. Responsibilities
13. Staffing and training needs
14. Schedule
15. Risks and contingencies
16. Approvals

8.2.2. *Test plan as per IEEE 829-2008*[3]

1. Introduction
   1.1. Document identifier
   1.2. Scope

2 Copyright IEEE.
3 Copyright IEEE under the term "Level test plan".

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1.3. References

1.4. Level in the overall sequence

1.5. Test classes and overall test conditions

2. Details for this level of test plan

2.1. Test items and their identifiers

2.2. Test traceability matrix

2.3. Features to be tested

2.4. Features not to be tested

2.5. Approach

2.6. Item pass/fail criteria

2.7. Suspension criteria and resumption requirements

2.8. Test deliverables

3. Test management

3.1. Planned activities and tasks; test progression

3.2. Environment/infrastructure

3.3. Responsibilities and authority

3.4. Interfaces among the parties involved

3.5. Resources and their allocation

3.6. Training

3.7. Schedules, estimates, and costs

3.8. Risk(s) and contingency(s)

4. General

4.1. Quality assurance procedures

4.2. Metrics

4.3. Test coverage

4.4. Glossary

4.5. Document change procedures and history

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8.3. Test design document

8.3.1. *Test design specifications as per IEEE 829-1998*[4]

1. Test design specification identifier
2. Features to be tested
3. Approach refinements
4. Test identification
5. Feature pass/fail criteria

8.3.2. *Test design document as per IEEE 829-2008*[5]

1. Introduction
   - 1.1. Document identifier
   - 1.2. Scope
   - 1.3. References
2. Details of the level test design
   - 2.1. Features to be tested
   - 2.2. Approach refinements
   - 2.3. Test identification
   - 2.4. Feature pass/fail criteria
   - 2.5 Test deliverables
3. General
   - 3.1. Glossary
   - 3.2. Document change procedures and history

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8.4. Test case

8.4.1. *Test case document as per IEEE 829-1998*[6]

1. Test case specification identifier
2. Test items
3. Input specifications
4. Output specifications
5. Environmental needs
6. Special procedural requirements
7. Intercase dependencies

8.4.2. *Test case document as per IEEE 829-2008*[7]

1. Introduction (once per document)
   - 1.1. Document identifier
   - 1.2. Scope
   - 1.3. References
   - 1.4. Context
   - 1.5. Notation for description
2. Details (once per test case)
   - 2.1. Test case identifier
   - 2.2. Objective
   - 2.3. Inputs
   - 2.4. Outcome(s)
   - 2.5. Environmental needs
   - 2.6. Special procedural requirements
   - 2.7. Intercase dependencies
3. Global (once per document)

6 Copyright IEEE under the name “Test case specification”.
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3.1. Glossary

3.2. Document change procedures and history

8.5. Test procedure

8.5.1. *Test procedure document as per IEEE 829-1998*[8]

1. Test procedure specification identifier
2. Purpose
3. Special requirements
4. Procedure steps

8.5.2. *Test procedure document as per IEEE 829-2008*[9]

1. Introduction
   1.1. Document identifier
   1.2. Scope
   1.3. References
   1.4. Relationship to other procedures
2. Details
   2.1. Inputs, outputs, and special requirements
   2.2. Ordered description of the steps to be taken to execute the test cases
3. General
   3.1. Glossary
   3.2. Document change procedures and history

8 Copyright IEEE under the name "Test procedure specification".
9 Copyright IEEE under the name "Level test procedure".

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8.6. Test log

8.6.1. *Test log as per IEEE 829-1998*[10]

1. Test log identifier
2. Description
3. Activity and event entries

8.6.2. *Test log as per IEEE 829-2008*[11]

1. Introduction
   1.1. Document identifier
   1.2. Scope
   1.3. References
2. Details
   2.1. Description
   2.2. Activity and event entries
3. General
   3.1. Glossary

8.7. Defect report

8.7.1. *Defect report as per IEEE 829-1998*[12]

1. Test incident report identifier
2. Summary
3. Incident description
   3.1. Inputs
   3.2. Expected results
   3.3. Actual results

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11 Copyright IEEE under the name “Level test log”.
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3.4. Anomalies

3.5. Date and time

3.6. Procedure step

3.7. Environment

3.8. Attempts to repeat

3.9. Testers

3.10. Observers

4. Impact

8.7.2. *Defect report as per IEEE 829-2008*[13]

1. Introduction

1.1. Document identifier

1.2. Scope

1.3. References

2. Details

2.1. Summary

2.2. Date anomaly discovered

2.3. Context

2.4. Description of anomaly

2.5. Impact

2.5.1. Inputs

2.5.2. Expected results

2.5.3. Actual results

2.5.4. Unexpected outcomes

2.5.5. Procedure step

2.5.6. Environment

2.5.7. Attempts to repeat

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2.5.8. Testers

2.5.9. Observers

2.6. Originator's assessment of urgency

2.7. Description of the corrective action

2.8. Status of the anomaly

2.9. Conclusions and recommendations

3. General

3.1 Document change procedures and history

8.8. Test report

8.8.1. *Test report as per IEEE 829-1998*[14]

1. Test summary report identifier
2. Summary
3. Variances
4. Comprehensive assessment
5. Summary of results
6. Evaluation
7. Summary of activities
8. Approvals

8.8.2. *Interim test report as per IEEE 829-2008*[15]

1. Introduction
   1.1. Document identifier
   1.2. Scope
   1.3. References
2. Details

14 This test report is copyright IEEE, under the name "Test summary report".
15 This test interim report is copyright IEEE.

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2.1. Test status summary

2.2. Changes from plans

2.3. Test status metrics

3. General

3.1. Document change procedures and history

8.8.3. *Level test report as per IEEE 829-2008*[16]

1. Introduction

1.1. Document identifier

1.2. Scope

1.3. References

2. Details

2.1. Overview of test results

2.2. Detailed test results

2.3. Rationale for decisions

2.4. Conclusions and recommendations

3. General

3.1. Glossary

3.2. Document change procedures and history

8.8.4. *Master test report as per IEEE 829-2008*[17]

1. Introduction

1.1. Document identifier

1.2. Scope

1.3. References

2. Details of the master test report

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2.1. Overview of all aggregate test results

2.2. Rationale for decisions

2.3. Conclusions and recommendations

3. General

3.1. Glossary

3.2. Document change procedures and history

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