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**Test Points Definition & Coverage Process  
FOR**

**Testing Department**

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| **Classification Information:** | Internal |
| **Level:** | II |
| **Document Version:** | 1.0 |
| **Creation Date:** | MM-DD-YYYY |
| **Status:** |  |
| **Reviewer:** |  |
| **Approver:** |  |

**Revision History**

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| --- | --- | --- | --- | --- |
| **DATE** | **DESCRIPTION** | **SECTION** | **DONE BY** | **VERSION #** |
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**Approving Authority:**

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# Purpose

1. Identify scope of testing
2. Identify quality objectives
3. Ensure 95% test coverage
4. Ensure efficient effort & schedule estimation of testing

# Glossary

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| --- | --- |
| **Word** | **Meaning** |
| FS | Functional Specifications |
| CR | Change Request |
| SQAE | Software Quality Assurance Engineer |
| SSQAE | Senior Software Quality Assurance Engineer |
| TTL | Testing team lead of the Project |
| TL | Team Lead of Development/Analysis/QA/CS (other than TTL) |
| QAM | Quality Assurance Manager |
| Quality Factors | Aspects of software quality (correctness, efficiency, reliability, usability, integrity, security, interoperability) |
| Test Point | Testable functions identified against requirements |
| TD | Test Point Designer who is writing Test Points. The Member can be any Designation from following List:   * SQAE * SSQAE |

## Process Owner

* QAM

## Entry Criteria

It includes followings:

## Input(s)

* FS/CR is approved.
* SDLC state is set to ‘Ready for Development’.

## Control(s)

|  |  |
| --- | --- |
| Tester Checklist |  |
| Test Point Template |  |
| Reviewer Checklist |  |

## Mechanism (Tool & Techniques)

* Team Foundation Server (TFS)

# Process

1. TD identifies the Testable Requirements.
2. TD classifies requirements w.r.t. quality factors.
3. TD documents Test Points.
4. TD documents expected number of test cases against each Test Point.
5. TD sends the Test Points sheet for review to TL.
6. TL reviews the Test Points and provides feedback.
7. TD updates the Test Points.
8. TD documents effort estimates of each test point.
9. TTL reviews the Test Points including the estimation and provides feedback.
10. Process steps 7 to 9 continue till finalized by TTL.
11. TD uploads the Test Point document in TFS.

# Procedure

### TD notes all new requirements from FS/CR.

1. TD notes all modified requirements from FS/CR.
2. TD identifies the affected areas against each requirement from FS/CR document and Previous projects.
3. TD classifies requirements w.r.t. Quality Factors. [Testing scope document]
4. TD documents Test Points for each Quality Factor.
5. TD documents Test Points in meaningful/understandable statements by Tester Checklist provided.
6. TD may consult Application area experts for the draft Test Point document.
7. TD documents the actions/controls/list pages w.r.t. requirement by following Testing Documentation Guidelines.

### TD documents the expected number of Test Cases against each Test Point.

1. TD classifies and documents complexity for each Test Point in:
   1. High (Maximum time; required to execute the most complex scenario)
   2. Medium (Most likely; time required to execute the most complex scenario)
   3. Low (Minimum time; required to execute the most complex scenario)
2. TD fills the Tester Checklist according to the coverage. [Test Point document]
3. TD shares the ‘Test Points’ and ‘Tester Checklist-Filled’ with the TTL on TFS.

### TTL reviews Test Points and Tester Checklist-Filled sheets.

1. TTL documents the feedback and shares it with TD on TFS.
2. TD updates the Test Points and Tester Checklist-Filled according to the feedback.
3. Steps 11 through 14 are followed until the Test Points and Tester Checklist-Filled are approved by TTL.
4. TTL gives documented approval on TFS.

### TD baselines the finalized and reviewed Test Points and Tester Checklist-Filled.

# Duration

This process shall be completed before the ‘Dev Acceptance Testing’ status is set in TFS.

**Related Processes**

*Hint: Mention the dependent process in this area.*

Followings are the dependent process:

1. Testing-Test Case

# Notes

Incase during this process if TD detects any new anomaly/defect, he/she logs it into QC for corrective action.

# Exceptions

QAM provides the process bypassed stamp in TFS if any of the process going to bypass along with rational. In addition, QAM provides the other option in replacement of bypassed process.

# Output

1. Testing scope document
2. Test Points document
3. Test Point Checklist-Filled

# Metrics:

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| --- | --- | --- |
| **Sr.** | **Points** | **Consideration** |
|  | Number of New requirements identified. | * It will help to identify how many new requirement we are delivering in a specific time period. |
|  | Number of Modified requirements identified. | * It will help to identify how many modified requirement we are delivering in a specific time period. |
|  | Number of affected areas. | * The higher the number means the area is more complex or highly dependent. |
|  | Number of application area experts consulted. | * Should include the Areas information * It will tell us which area affect the most or consulted. |
|  | Number of Test Points(High/Medium/Low/Total). | * High Cost or Average Cost |
|  | Number of Test Points identified in Tester Checklist to ensure coverage. | * This will provide the TD grip on the CR and efficiency of the TD can be calculated on it as well |
|  | Number of Test Cases identified. | * Average no of test cases in context of Test Points |
|  | Number of new anomaly/ defects identified w.r.t. FS/CR. | * Percentage * Comparison operator w.r.t. defects identified at the time of CR review process |
|  | Number of Scope items changed/added/deleted w.r.t. Testing Scope Document per cycle after review. | * Percentage against scope * Can be connected with FP(Function Point) |
|  | Number of Test Points changed/added/deleted w.r.t. Test Point Document per cycle after review. | * This will provide TD efficiency level. |
|  | Number of review cycle. | * The lesser the iteration number, the higher the quality is. |