Testing Data Collection

*Test Dashboard Data*

*RCG Global Services*

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**Revision History**

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# Purpose

The purpose of this document is to lay out the data that should be collected during a testing project to provide the statistical analysis provided for in the Test Dashboard. Test tracking covers the following areas: Requirements, Test Case Matrix, Test Cases, Test Case Execution and Defects. (Defects is not covered yet). The goal is that the data collected will provide an accurate picture to the current and past state of testing within a project and will allow for analysis to find areas of future improvement.

# Conventions

\* Indicates field is calculated based off of other fields

# Project Information

Resources

Financial

Etc

# Requirements

All requirements to be implemented in the system

## Identification

* **ID**: Unique Requirement ID
* **Name**: Descriptive Requirement Name
* **Requirement Text**: Text from source document
* **Source**: Source Document Name
* **Source Location**: Source Document Location

## Area

* **Business Area**: Defined by specific Project
* **Application**: Specific Application(s) requirement falls within
* **Priority**: Priority of requirement within the overall project
* **Business Analyst**: Lead Business Analyst in charge of this requirement and will sign off on System Integration Testing
* **User**: User(s) who will use this requirement and signoff on User Acceptance Testing

## Test Levels

* **SIT**: Indicates if this requirement will be tested in SIT
  + Pending: Requirement will be tested in SIT but has not started execution
  + Pass: Requirement has been tested in SIT and has passed
  + Fail: Requirement has been tested in SIT and has Failed
  + N/A: Requirement will not be tested in SIT
* **SIT Signoff**: SIT testing is complete and has been signed off for this requirement
* **UAT**: Indicates if this requirement will be tested in UAT
  + Pending: Requirement will be tested in UAT but has not started execution
  + Pass: Requirement has been tested in UAT and has passed
  + Fail: Requirement has been tested in UAT and has Failed
  + N/A: Requirement will not be tested in UAT
* **UAT Signoff**: UAT testing is complete and has been signed off for this requirement
* **Parallel**: Indicates if this requirement will be tested in Parallel
  + Pending: Requirement will be tested in Parallel but has not started execution
  + Pass: Requirement has been tested in Parallel and has passed
  + Fail: Requirement has been tested in Parallel and has Failed
  + N/A: Requirement will not be tested in Parallel
* **Parallel Signoff**: Parallel testing is complete and has been signed off for this requirement
* **Regression**: Indicates if this requirement will be tested in Regression
  + Pending: Requirement will be tested in Regression but has not started execution
  + Pass: Requirement has been tested in Regression and has passed
  + Fail: Requirement has been tested in Regression and has Failed
  + N/A: Requirement will not be tested in Regression
* **Regression Signoff**: Regression testing is complete and has been signed off for this requirement

## Status

* **Requirement Complete Date Planned**: Planned date requirement will be compete and ready for development
* **Requirement Complete Date Actual**: Actual date requirement was competed and ready for development
* **\*Requirement Days off Plan\***: Number of days difference between Planned and Actual
* **\*Requirement Early/Late/On Time**: Indicates if Actual before schedule, on schedule or past schedule
* **\*Requirement Days Ealry**: Number of days Actual before Planned
* **\*Requirement Days Late:** Number of days Actual past Planned
* **Development Complete Date Planned**: Planned date development of this requirement will be complete and ready for test
* **Development Complete Date Actual**: Actual date development of this requirement was completed and ready for test
* **\*Development Days off Plan**: Number of days difference between Planned and Actual
* **\*Development Requirement Early/Late/On Time**: Indicates if Actual before schedule, on schedule or past schedule
* **\*Development Requirement Days Ealry**: Number of days Actual before Planned
* **\*Development Requirement Days Late:** Number of days Actual past Planned
* **Test Complete Date Planned**: Planned date testing of this requirement will be complete and ready for production
* **Test Complete Date Actual**: Actual date testing of this requirement was completed and ready for production
* **\*Test Days off Plan**: Number of days difference between Planned and Actual
* **\*Test Requirement Early/Late/On Time**: Indicates if Actual before schedule, on schedule or past schedule
* **\*Test Requirement Days Ealry**: Number of days Actual before Planned
* **\*Test Requirement Days Late:** Number of days Actual past Planned
* **Production Date Planned**: Planned date of production for this requirement
* **Production Date Actual**: Actual date requirement was built into production
* **\*Production Days off Plan**: Number of days difference between Planned and Actual
* **\*Production Requirement Early/Late/On Time**: Indicates if Actual before schedule, on schedule or past schedule
* **\*Production Requirement Days Ealry**: Number of days Actual before Planned
* **\*Production Requirement Days Late:** Number of days Actual past Planned
* **Last Update Date**: Date requirement was last updated which caused a change in development or testing
* **\*Updated after Started**: Requirements updated after the Requirement Completed Actual Date
* **Rejected**: Requirement was removed from the project and is no longer part of the system
* **Rejected Date**: Date requirement was removed from the project
* **Rejected Reason**: Reason requirement was removed from project

## Notes

* **Notes**: Information pertaining to clarification of the Requirements, Code, Test or Production
* **Comments**: Comments not based on clarification of the Requirements.
* **Issues**: Issues raised about the Requirement

# Test Case Requirement Matrix

Requirement Test Case Coverage

## Requirement

* **Requirement ID**: ID of the requirement from the Requirements
* **Name**: Name of the Requirement from the Requirements

## Test Case

* **Test Case ID**: ID of the Test Case from the Test Cases
* **Name**: Name of the Test Case from the Test Cases

## Notes

* **Notes**: Information pertaining to clarification of the connection between the Requirement and Test Case
* **Comments**: Comments not based on clarification of the connection
* **Issues**: Issues raised about the connection between Requirement and Test Case

# Test Case Plan

Test Cases Required to Cover All Requirements

## Identification

* **ID**: Unique ID of the test case, should not have any other meaning
* **Name**: Unique descriptive name
* **Business Area**: Defined by specific Project
* **Functional Area**: Area test case covers. If more than one area is covered than test case should be split or the dominate area should be chosen
  + Business Rules: Implementation of a Business Rule
  + Calculations: Calculation that is performed in the system
  + Environment: Aspects of the system environment
  + Database Environment: Database environment, excluding schema and data
  + Database Schema: Database schema only no environment or data
  + Data: Data required for system including environment data and production data
  + Code: Developed software used within the system
  + User Interface: Any interaction between the system and the user
  + Interfaces: Connection between any to subsystems within the system
* **Step**: Test Process
  + SIT: Test case is used within the System and Integration Testing
  + UAT: Test case is used within the User Acceptance Testing
  + Parallel: Test case is used within the Parallel Testing
  + Regression: Test case is used within the Regression Testing

## Baseline

* **Original**: Test Case was part of the original plan of test cases, this forms the baseline of test cases for analysis of test case statistics
  + Yes: Test case was part of the original baseline
  + No: Test case was added after the original baseline was created
* **Added**: Indicates if the Test Case was added to the original baseline
  + Yes: Test Case was added after the original baseline was created
  + Blank: Test Case was part of the original baseline
* **Added Date**: Date test case was added from the original baseline, blank if the Test Case was part of the original baseline
* **Added Reason**: Reason behind why the test case was added
  + New Requirement: Base requirement was added to the system
  + Split Test Case: Original test case for a requirement was split into multiple test cases, only one of the test cases is deemed as the original
  + Missed: Requirement was missed in original analysis and needs to be added
* **Deleted**: Indicates that the Test Case has been deleted
  + Yes: Test Case has been deleted from the system
  + Blank: Test Case is still in scope
* **Deleted Date**: Date test case was deleted from the scope
* **Deleted Reason**: Reason behind why test case was removed from scope
  + Deleted Requirement: Requirement was deleted from the system
  + Combined with Another Test Case: Test Case was Merged with another test case.
  + Duplicate: Duplicate of another Test Case
* **Associated Test Case ID**: Merged or Duplicate test case which was test case was deleted in favor of

## Execution

* **Test Run Type**: Indicates how the test case will be executed
  + Batch: Test is part of a batch of tests that will be run
  + Automated: Test is run as part of an automated test plan
  + Manual: Test is run manually

## Status

* **Status**: Current status of the Test Case
  + Open: Test Case is currently in scope and is being worked on
  + Hold: Test Case is currently in scope but is on hold for some reason
  + Closed: Test Case has completed and passed
  + Rejected: Test Case is no longer in scope
* **Open Step**: Current phase of the Test Case when the test case is open
  + Requirement Analysis: Requirements are being analyzed by test to determine how to test the requirement
  + Creation: Test Case is in the process of being written
  + Data Setup: Data is being created to support the test case
  + Execution: Test Case is currently being executed and has not been passed
  + Approval: Test Case has been finished and is waiting for signoff
* **Hold Step**: Current reason the Test Case is on Hold
  + Research: Test Case put on hold during the Requirement Analysis phase
  + Design: Test Case put on hold during the Test Case Design phase
  + Development: Test Case put on hold during the Software Development phase
  + Execution: Test Case put on hold during the Test Case Execution phase
  + Defect: Test Case put on hold during the Defect Fix phase
* **Hold Reason**: Reason why the Test Case is on Hold
  + Requirements: Requirements in flux or questions raised about the requirements
  + Environment: Environment is not ready or broken
  + Data: Data is not available

## Schedule vs Actual

This section will cover the Schedule verses Actual information and status for each step in the Test Case process.

* **Start Date**: Date Test Case was started, any work that is done for a Test Case indicates the start

Step = Research, Design, Development, Data, Execution, Defect

* **<Step> Tester**: Lead tester for this step
* **<Step> Start Date/Time**: Start Date/Time of this step
* **<Step> End Date/Time**: End Date/Time of this step
* **<Step> Calendar Days**: Calendar days between Start and End dates
* **<Step> Hours**: Hours actually worked on the Test Case
* **Close Date**: Date Test Case is closed and no further work is done on the Test Case

## Notes

* **Notes**: Information pertaining to clarification of the Test Case
* **Comments**: Comments not based on clarification of the Test Case
* **Issues**: Issues raised about the Test Case

# Test Case Execution

Individual Executions of Each Test Case

## Identification

* **ID**: Test Case ID
* **Name**: Test Case Name
* **Execution Number**: Sequential number of test case executions

## Status

* **Status**: Status of the execution
  + Planned: Test Case execution is only planned and has not been executed yet
  + Execution: Test Case is currently being executed
  + Blocked: Test Case is Blocked and cannot proceed
  + Analysis: Test Case execution is complete and results are being analyzed
  + Approval: Test Case has passed and is in the approval process
  + Completed: Test Case execution is completed
* **Blocked Reason**: Reason behind why Test Case Execution is currently blocked
  + Test Case: Base Test Case on Hold
  + Environment: Test blocked by environmental issues
  + Data: Specific data for this test execution is unavailable
  + Resources: Resources not available to complete execution
* **Start Date/Time**: Start Data/Time of execution
* **End Date/Time**: End Date/Time of execution
* **Calendar Days**: Calendar days between Start and End Date
* **Hours**: Actual hours spent executing test case
* **Pass/Fail**: Test Case Execution passed or failed
* **Fail Reason**: Reason for Test Case Execution failure
* **Fail Notes**: Notes pertaining to the Test Case Execution
* **Tester**: Lead tester of the Test Case Execution
* **Developer**: Lead Developer during the Test Case Execution

## Notes

* **Notes**: Information pertaining to clarification of the Test Case Execution
* **Comments**: Comments not based on clarification of the Test Case Execution
* **Issues**: Issues raised about the Test Case Execution