

TEST PLAN

Windchill RV&S 13.0.0.0

Build: 1

API version: 5.14.1

VERSION HISTORY:

Version no	creator	Revision date	Approved by	Approval date	outline
1.0	Anna Obłonczek	11.08.2023	Jadwiga Banaś	16.08.2023	Test plan draft

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INTRODUCTION

This test plan is designed to describe the scope, approach resources and schedule of testing activities for project Windchill RV&S 13.0.0.0.

1 TEST STRATEGY

1.1 Scope of Testing

1.1.1 Features to be tested

Main features of Winchill applications which are defined in application requirements are to be tested:

Module name	Functionality
View Set	Open
	Delete
	Import
	Back Up
	Customize
Project	View
	Open
	Create
	Add
	Checkpoint
	Subproject
Sand Box	Create
	Import
Member	Check In
	Check Out
	Rename
	Add
	Resynchronize

1.1.2 Performance testing

1. Check for load testing
2. Check for stress testing of the application
3. Check CPU and memory usage under peak load conditions

1.2 Test Type

Four types of testing should be considered:

1. Integration
2. System
3. API testing

1.3 Risk and issues

Risk	Mitigation
Team members lack the required skills for the testing	Training and onboarding for new staff members
Wrong budget estimate and cost overrun	Establish the scope before the beginning of work and track and measure progress
Server connection issues	Contact server provider to inform about test to be performed and high availability of server is required

1.4 Test Logistics

1.4.1 Who will test

Three testers from Internal Development team, 2 testers outsourced from external company.

1.4.2 Entry Criteria

Tests will start once:

- Software is available for testing
- Test specification is created
- Test environment is ready
- Staff is gathered

2 TEST OBJECTIVES

The test objectives are to verify necessary functionalities and performance of Windchill 13.0.0. application. Tests should prove users can work normally and application is able to handle load of 150 users at once.

3 TEST CRITERIA

3.1 Suspension criteria

Test should be suspended when one of below occurs:

- Defect is introduced that cannot allow any further testing
- External dependent components are unavailable

Test should be resumed when:

- Defect is successfully resolved
- Dependent components are available

3.2 Exit criteria

- 100% of test plan executed, unless a clear reason given
- 90% pass rate
- No critical defect remains

4 RESOURCES

4.1 System resource

Number	Resource	Description
1	Server	Development server to run Windchill application
2	Test tools	JIRA – to report and track defects; JMeter – for load testing; TestRail – for test specification
3	Network	Use current structure
4	Computer	4 PCs – Windows 10 OS, at least 2GB RAM and 2.6GHz

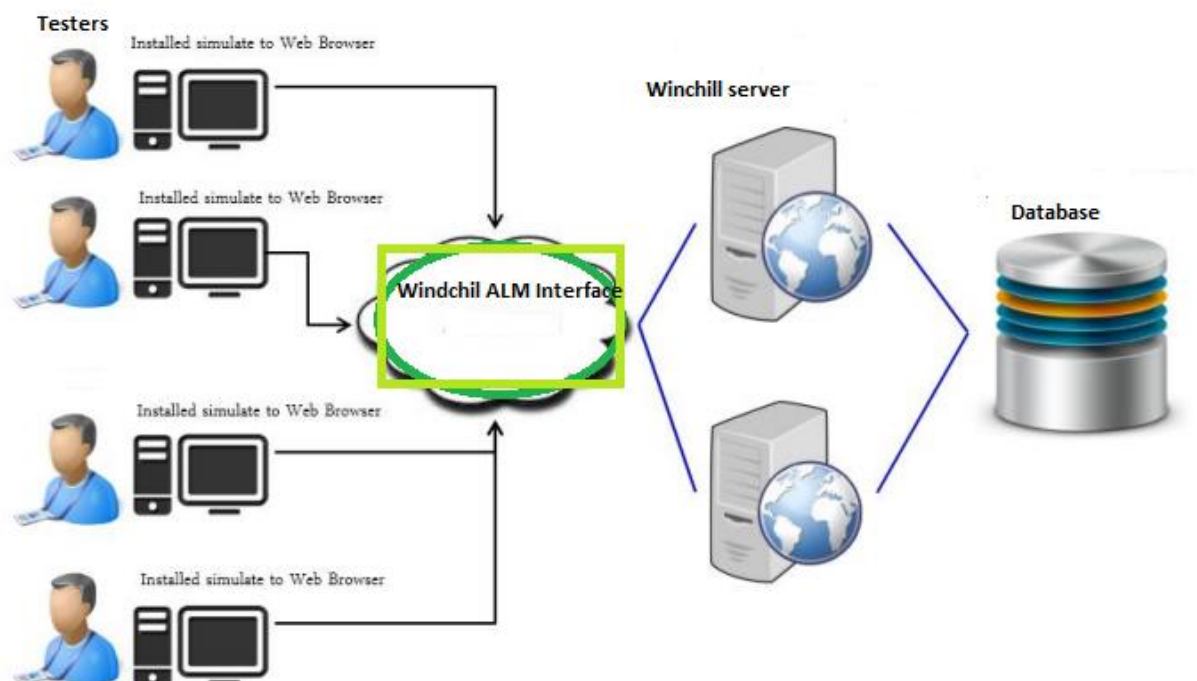
System resources should be prepared by internal IT department.

4.2 Staffing

Number	Role	Tasks
1	Test Manager	Acquires staffing, cooperated with IT department to acquire system resources' Verify and assess the test approach
2	Test Lead	Identifying and describing appropriate test techniques, tools architecture; Prepares test specification; Onboarding of rest of the testers
3	Tester	Prepares test specification; Execute tests, log results, report the defects

5 TEST ENVIRONMENT

Test environment should be setup as below figure presents



6 SCHEDULE AND ESTIMATION

6.1 Project tasks and their estimation

Task	Members	Estimated effort
Setup test environment	IT Department	10 man-hour
Test specification creation	Test Lead, Tester	120 man-hour
Test execution	Tester	80 man-hour
Test Report	Tester	60 man-hour
Team meetings	All	10 man-hour
Test management activities	Test Manager	30 man-hour
Test Delivery		20 man-hour
Total		330 man-hour

6.2 Schedule for task completion

Below is schedule for tasks identified.

Task name	Start Date	End Date
Test specification creation	01.09.2023	14.09.2023
Test execution	15.09.2023	20.09.2023
Test Report	21.09.2023	22.09.2023
Test Delivery	24.09.2023	24.09.2023

7 TEST DELIVERABLES

List of deliverables for the project:

7.1 Deliverables before testing

Test Plan

Test Design

7.2 Deliverables during testing

Test specification

Test Data

Error and execution logs

Additional test tools if necessary

7.3 Deliverables after testing

Test results

Defect reports

Release note