



 **Atlassian** SUMMIT

[#atlassiansummit](#)

Test Case Management and Requirements Traceability in JIRA



Vladimir Belorusetz, PhD • Quality Architect/Director • SafeNet, Inc.

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Trusted to protect the world's most sensitive data for the world's most trusted brands.



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\$1 trillion daily.



We protect the most digital identities in the world.



We protect the most classified information in the
world.

FOUNDED

1983

REVENUE

~330m

EMPLOYEES

+1,400

In 25 countries

OWNERSHIP

Private

GLOBAL FOOTPRINT

+25,000

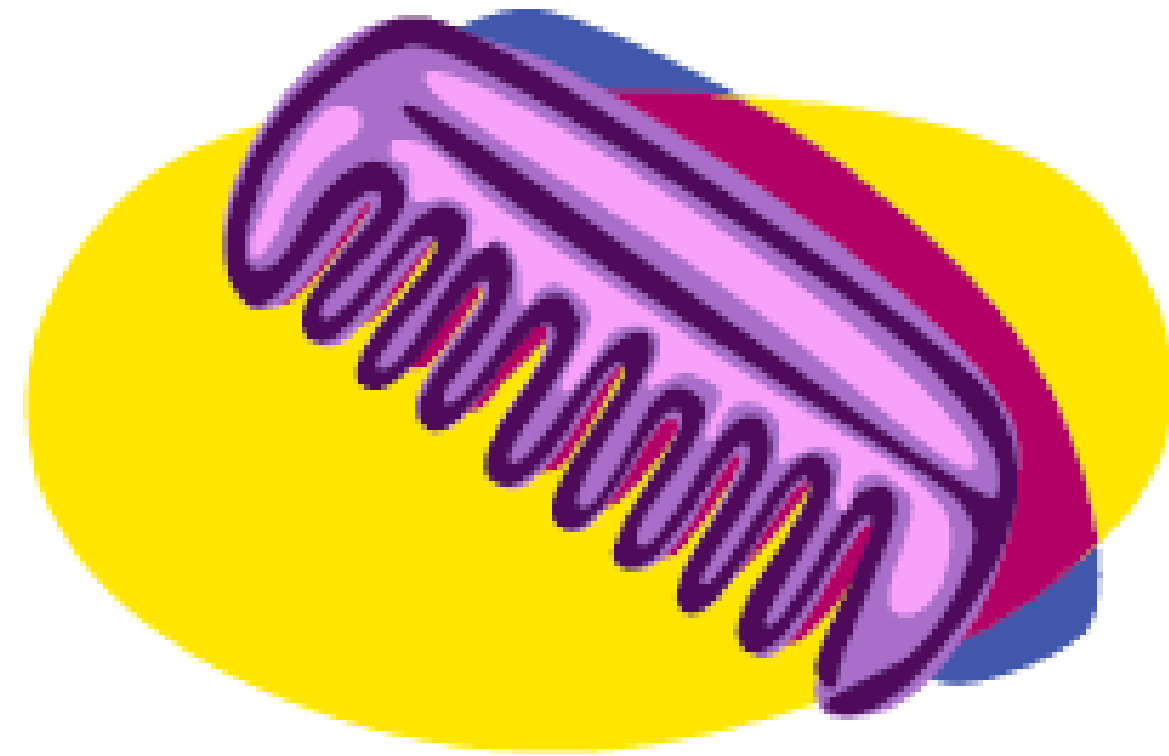
Customers in 100 countries

ACCREDITED

Products certified
to the highest
security standard

JIRA

- JIRA is a **framework** with **add-ons**



A screenshot of the Atlassian Marketplace website. The header features the Atlassian logo and the text "Atlassian Marketplace". Below this, it says "Profit and Glory Await. Sell your add-on to development teams across the world." and includes a "Find Out More" button. The right side of the image is filled with a collage of various company logos, including Coca-Cola, PayPal, Sprint, Cisco, Zendesk, eBay, Hulu, and many others. At the bottom of the collage, it says "45,000 of the world's best development teams".



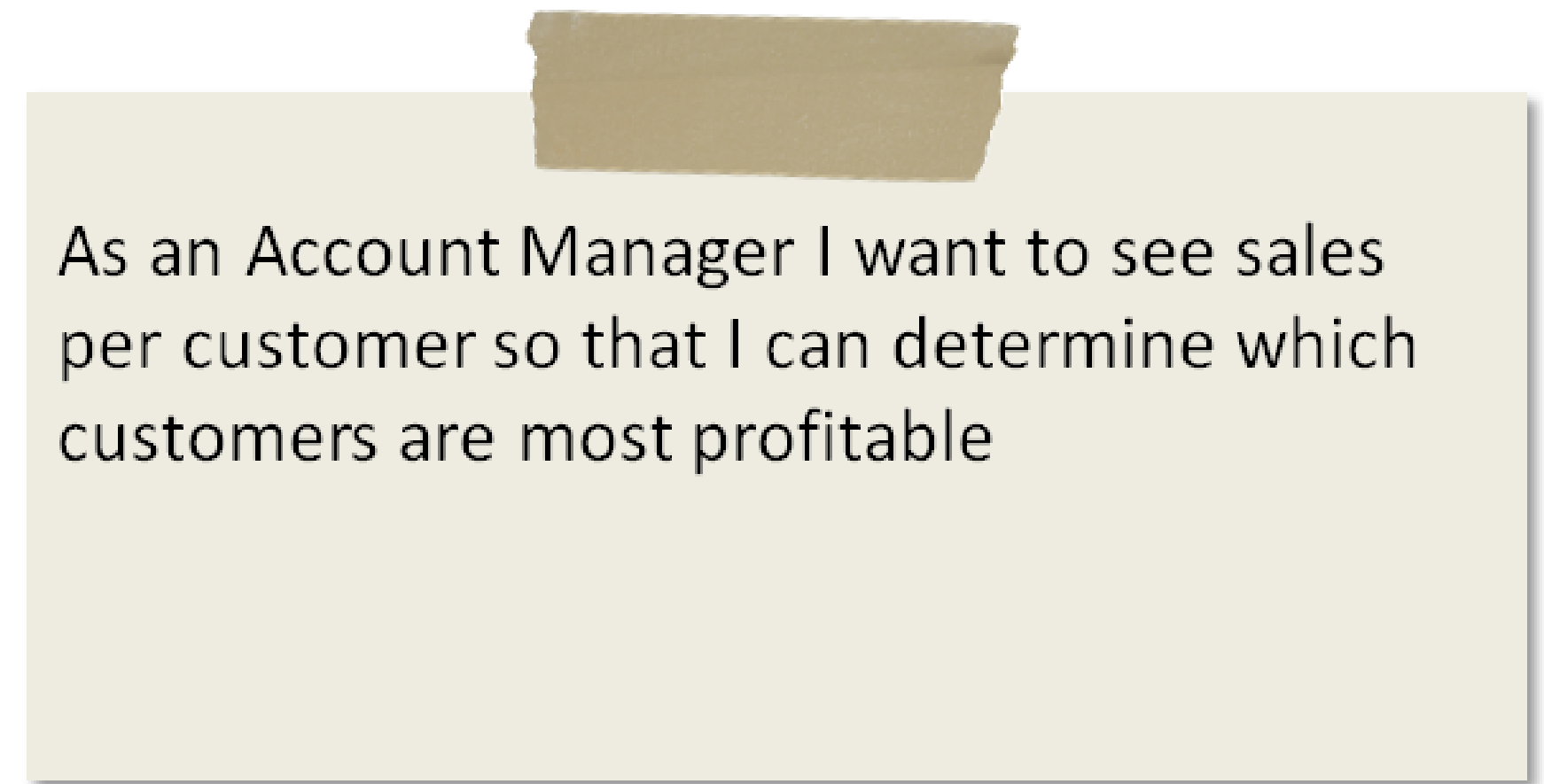
Issues

- JIRA issue types:
 - Bugs
 - Requirements
 - Tests

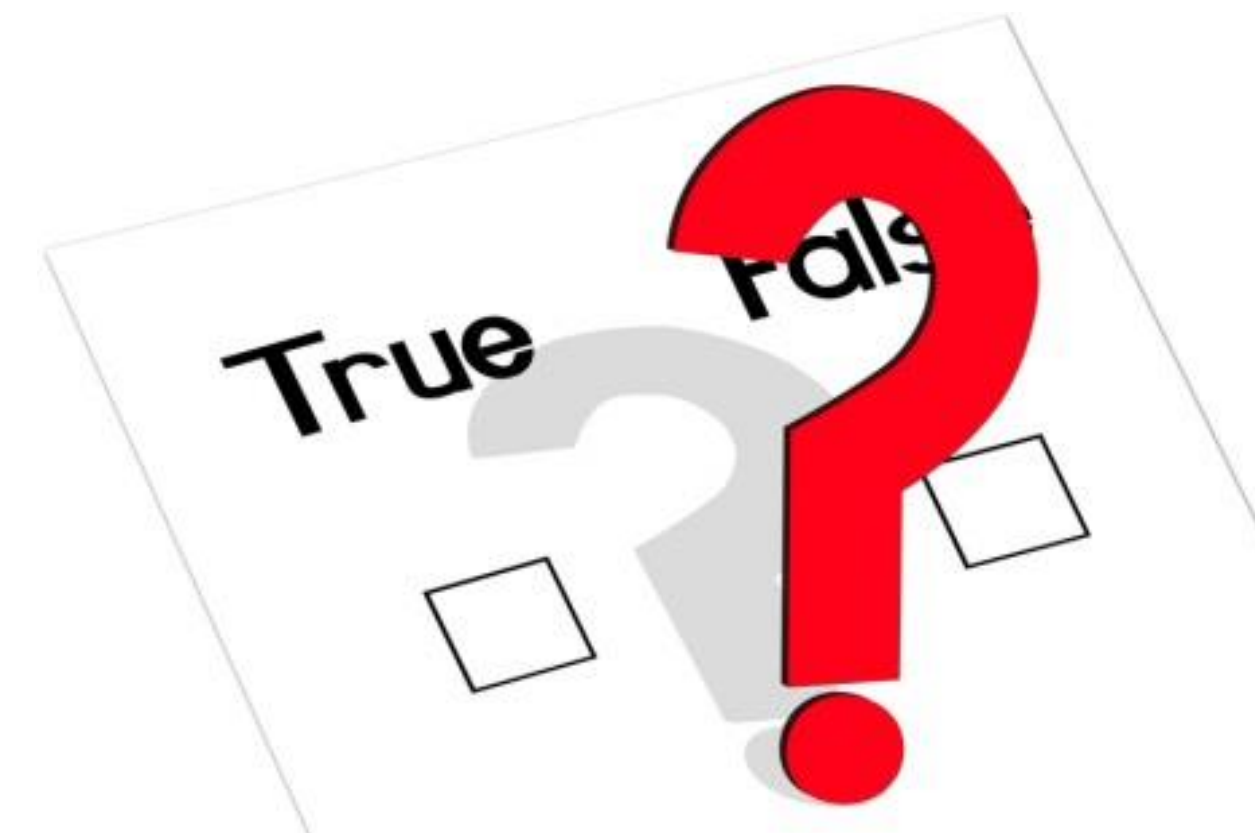
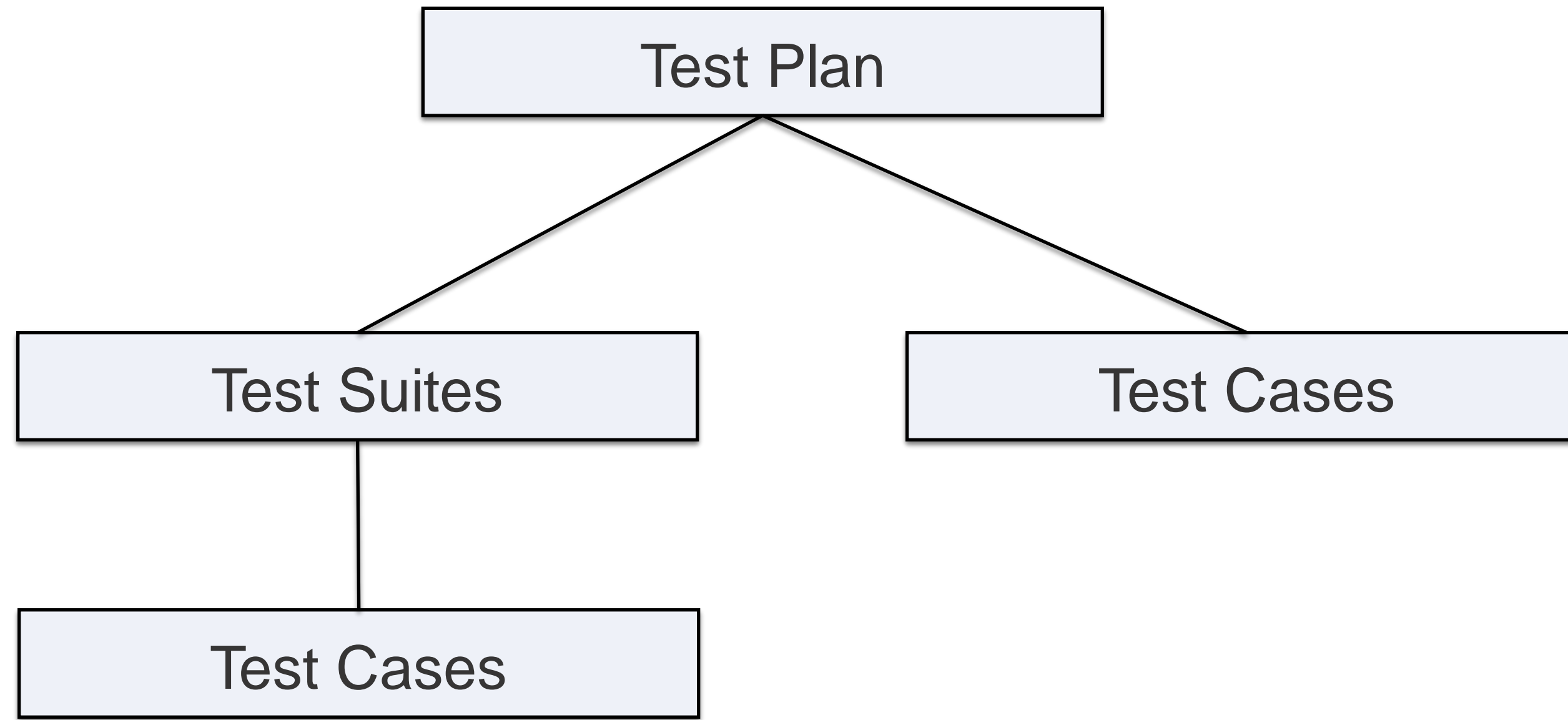


Requirements

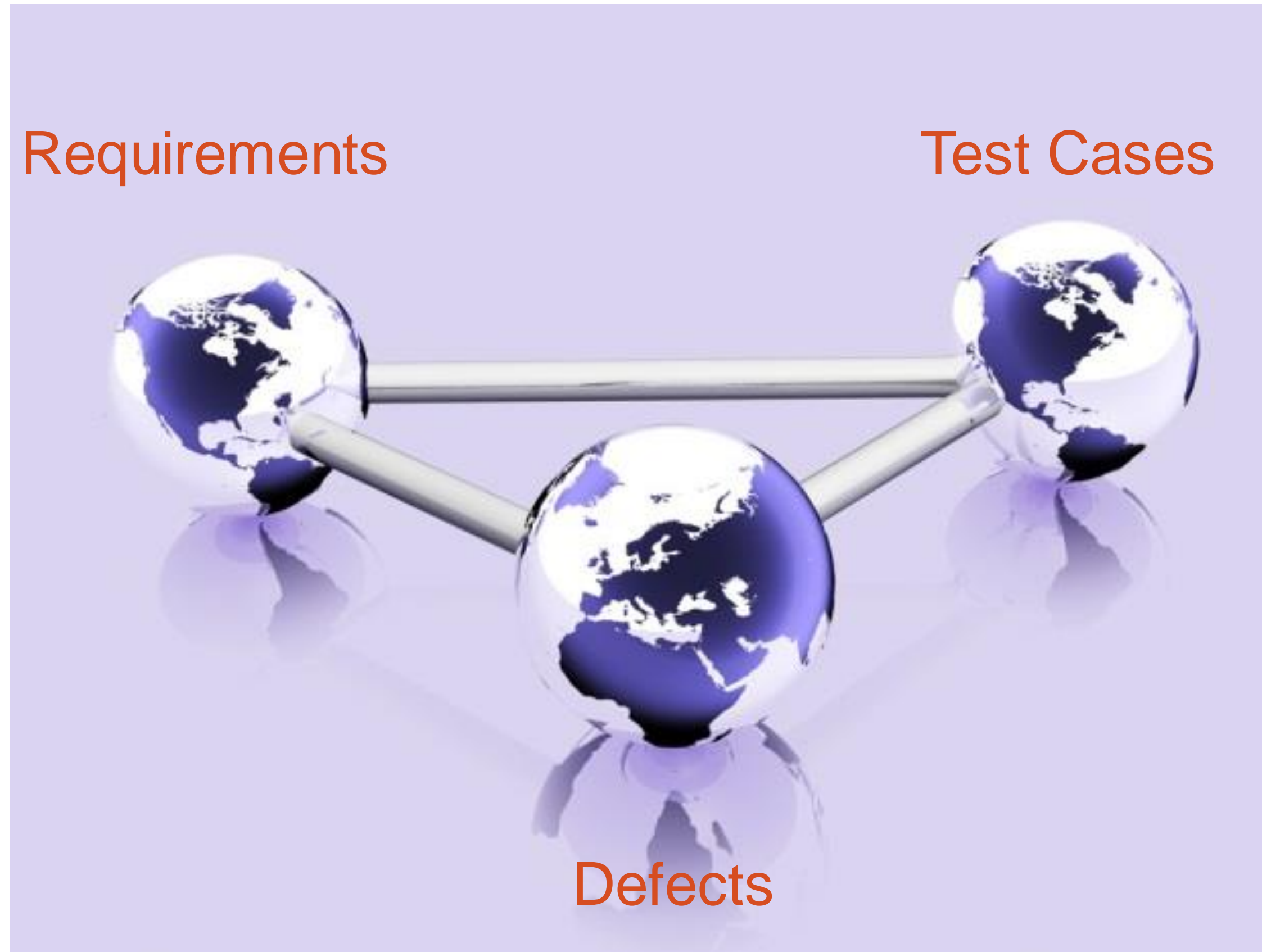
- User stories and epics
- JIRA Agile supports Scrum



Tests



Traceability



Test Case Management Requirement – No 1

- Test case management implementation should be **seamlessly integrated** with the entire **Atlassian suite**.



Test Case Management Requirement – No 2

- Test cases and test plans should be presented as if they were just **other JIRA issues**.

Create Issue

Project* DEC SandBox

Issue Type* **Test Case** ?

Some issue types are unavailable due to incompatible

Create Issue

Project* DEC SandBox

Issue Type* **Test Plan** ?

Some issue types are unavailable due to incompatil



Test Case Management Requirement – No 3

- Test engineers should be able to **associate test cases** with **user stories** and **bugs** they discover for traceability.

Activity

All Comments Work Log History Activity Commits **Test Plan** Source Reviews

All Users Test Case State Number Test Cases to load: 5 Query Configure columns

Test Cases

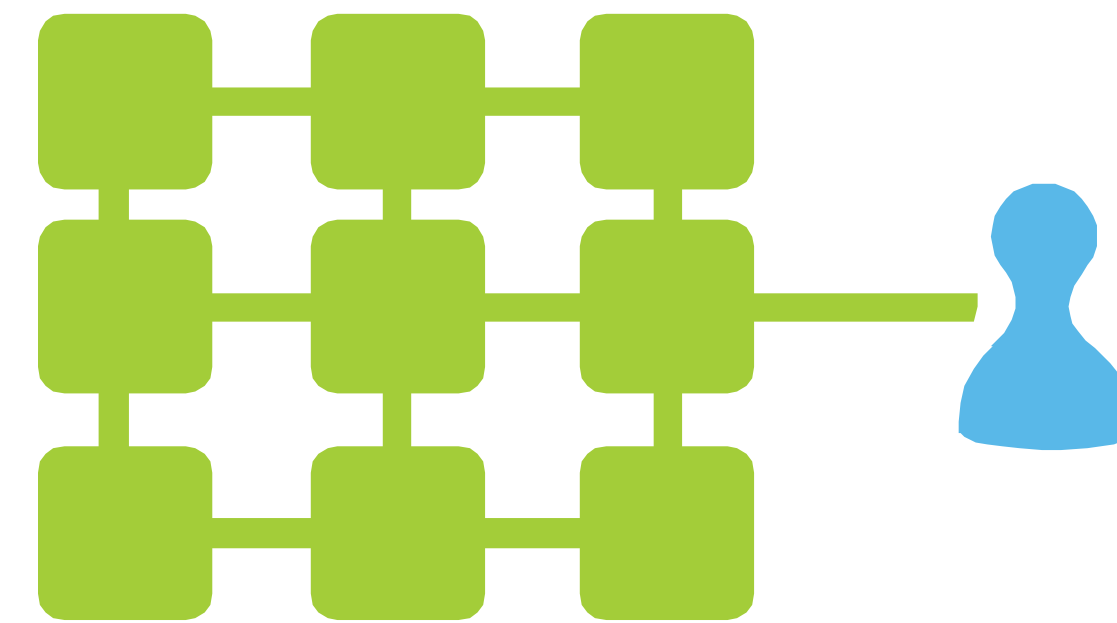
Passed - 25% 2
In Progress - 37.5% 3
Failed - 25% 2
Can't Test - 12.5% 1
Total Test Cases: 8

SubTest	Test Case State	Requirement	Bug	Test Suite
SBX-1188 Regression Test Plan: TC 1	Passed	SBX-1048 SBX-1170		Smoke
SBX-1189 Regression Test Plan: TC 2	Failed	SBX-1171	SBX-1195 SBX-1200	Linux
SBX-1190 Regression Test Plan: TC 3	Passed	SBX-1172 SBX-1049		Smoke Windows
SBX-1191 Regression Test Plan: TC 4	Can't Test	SBX-1173		Smoke Linux
SBX-1192 Regression Test Plan: TC 5	Failed	SBX-1174	SBX-1196	Smoke

<< < 1 2 > >>

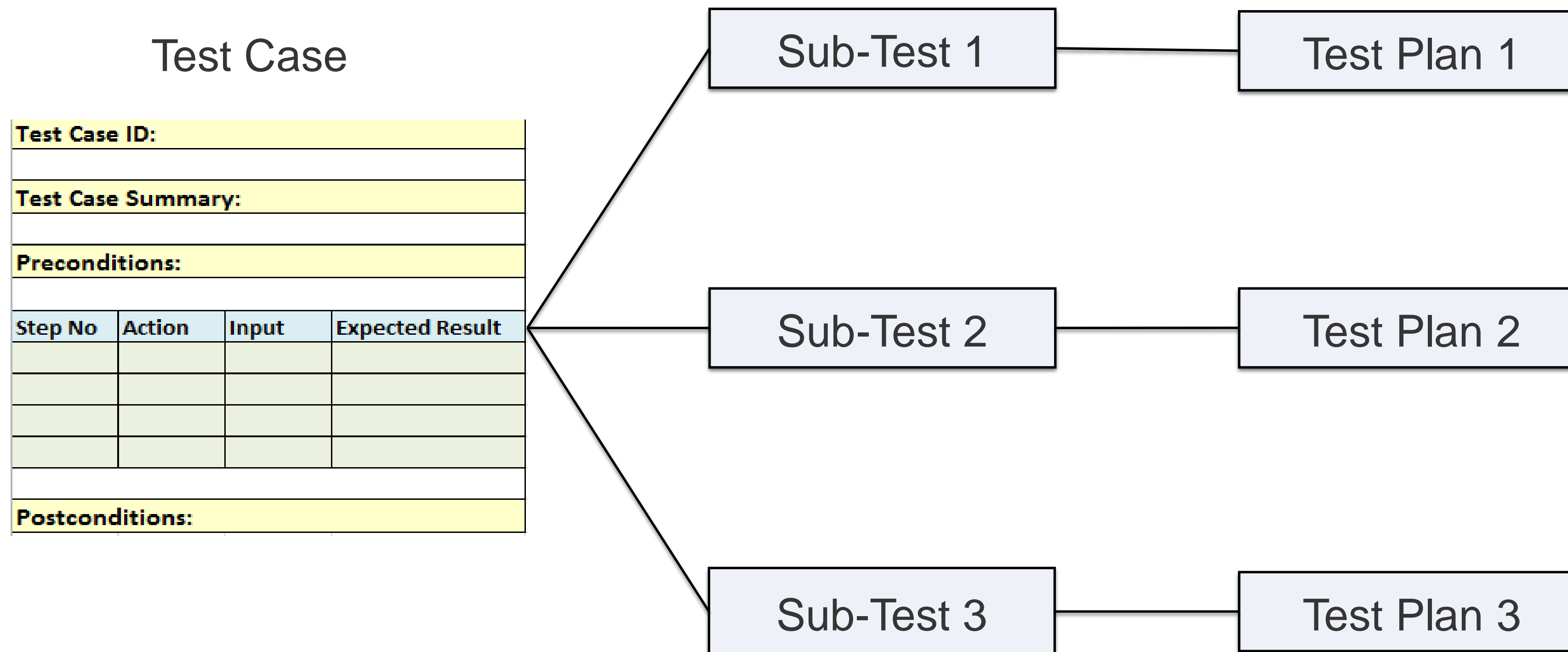
Test Case Management Requirement – No 4

- Engineers can execute the **same test cases** in multiple **test plans** **independently** and **in parallel** without overwriting the test case results



Test Cases vs. Sub-tests

- **Sub-tests** are independent instances of test cases



Test Case Management Requirement – No 5

- Aggregated and customizable view

Choose columns to display on the issue panel

Summary

TestCase(SubTest)	Test Case State	Requirement	Bug	Test Suite

All Comments Work Log History Activity Commits **Test Plan** Source Reviews

Belorusets,Vladimir Failed

Test Cases


Passed - 25% 2
In Progress - 37.5% 3
Failed - 25% 2
Can't Test - 12.5% 1
Total Test Cases: 8

SubTest	Parent Test Case	Assignee	Test Case State	Requirement	Bug	Test Suite
SBX-1189 Regression Test Plan: TC 2	SBX-1179	Belorusets,Vladimir	Failed	SBX-1171	SBX-1195 SBX-1200	Linux
SBX-1192 Regression Test Plan: TC 5	SBX-1182	Belorusets,Vladimir	Failed	SBX-1174	SBX-1196	Smoke

Test Case Management Requirement – No 6

Test Suite

This panel displays SYNAPSE test suite information for a project.

 Configure columns

Test Suite Name	Linked To						Operations
AWS Marketplace (Project)	▼						Edit Delete Update
Test Cases Total: 11 / States: In Progress[11] / Statuses: Open[11]							
CouchDB Features (Project)	▲						Edit Delete Update
	Test Case	Status	Assignee	Reporter	Requirement	Test Case State	
	PV-1991 PVM: changePasswordForUser() API should not allow password change for admin user	→ Open	Birdi, Harman	Birdi, Harman	PV-1535	In Progress	
	PV-1992 PVM: admin password cannot be set to None	→ Open	Birdi, Harman	Birdi, Harman	PV-1535	In Progress	
	PV-1993 PVM: Change admin password and set it back to same old password	→ Open	Birdi, Harman	Birdi, Harman	PV-1535	In Progress	
PVC Build Validation (Project)	▼						Edit Delete Update
Test Cases Total: 2 / States: In Progress[2] / Statuses: Open[2]							
	Test Case	Status	Assignee	Reporter	Requirement	Test Case State	
	PV-4195 OBSOLETE: Validate the list of snapshots mentioned in snapshot.idx is same as in PVM /opt/pvm/bin/snapshot.idx location	→ Open	Mehta, Vasudha	Choudhary, Ashwani	PV-3321	In Progress	
	PV-7311	→ Open	Mehta, Vasudha	Mehta, Vasudha		In Progress	

Test Case Management Requirement – No 7

- Integration with [JIRA Agile](#)

The screenshot displays the JIRA Agile interface for a project named 'SafeNet JIRA'. The top navigation bar includes a menu icon, the project name, and options for 'Dashboards', 'Projects', and 'More'. A prominent blue 'Create issue' button is visible. A search bar labeled 'Quick Search' and user profile icons are also present.

The main content area is titled 'VB' and features a navigation bar with 'Plan', 'Work', 'Report', and 'Board' tabs. Below this, a search bar and 'QUICK FILTERS' section are shown, with filters for 'Stories Only', 'jira-administrators Group', 'Only My Issues', and 'Recently Updated'.

The central part of the interface shows a 'VERSIONS' sidebar with 'Version 2 - Sprint3' selected, containing '1 issue'. A 'Start Sprint' button is located next to it. The main issue list displays 'SBX-1186 Regression Test Plan' with a '1 issue' and 'Estimate 0' summary.

Below the sprint view, a 'Backlog' section shows '46 issues' and a 'Create Sprint' button. The first item in the backlog is 'SBX-1050 VB Story3' with a 'DEC V1' label.

The right-hand side of the interface provides a detailed view for the selected issue 'DEC SandBox / SBX-1186'. The details include:

- Regression Test Plan
- Estimate: *Unestimated*
- Details section with:
 - Epic: *None*
 - Status: *In Progress*
 - Fix Version/s: *None*

Test Case Management Requirement – No 8

- Test plan gadget

synapseRT Test Plan				
Project: ProtectV Release: 1.2				
Test Plan	In Progress	Passed	Failed	Can't Test
Linux Kernel Upgrade Test plan for vSphere Cloud	0	6	1	2
Linux Kernel Upgrade Test plan for AWS Cloud	0	7	0	0
Test Plan - Test Plan for Windows Upgrade Support...	0	13	0	0
ProtectV-1.2_Regression test	0	194	4	1
ProtectV-1.2_Release test	0	30	0	0
Test Plan:ProtectV CentOS 5.7 (64bit) VMs, Cloud=...	0	41	0	1
Test Plan for Linux Upgrade Support for 1.2.0	0	5	0	0
Test Plan:ProtectV CentOS 5.7 (64bit) VMs, Cloud ...	0	47	2	0
ProtectV Client Uninstallation	7	0	0	0
Release 1.2 ECO test plan	0	35	0	0
CLONE - ProtectV Client Uninstallation - TEST	0	6	1	0
Total	7	384	8	4

Test Case Management Requirement – No 9

- REST API

Example: <https://jira.safenet-inc.com/changeStateServlet?testPlanKey=<Test Plan ID>&<Test Case ID>=Passed&<Test Case ID>=Failed&<Test Case ID>=Passed>



Demo



Go2Group synapseRT

★★★★★ (23) • 17,551 downloads • Go2Group • Testing & QA

Available for JIRA 6.0 - 6.2.7 • Vendor supported



Thank you!



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