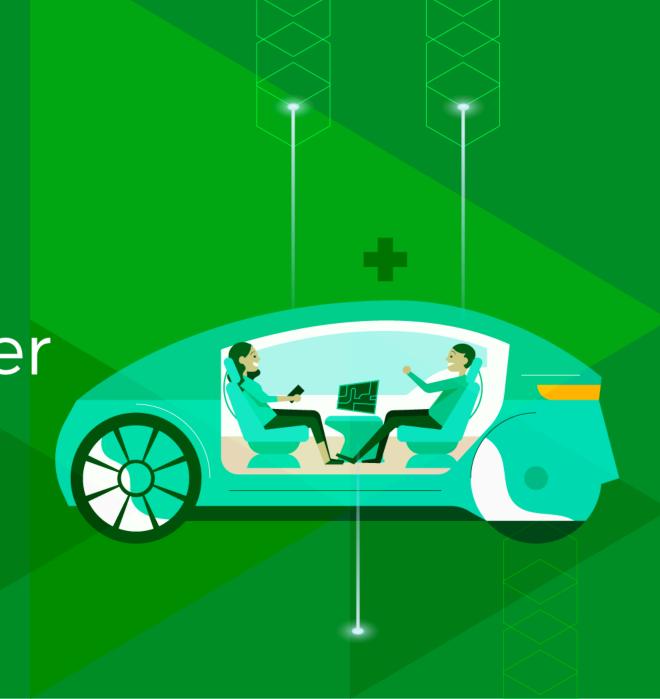


Atlassian Automotive User Forum #4

> **Sérgio Freire** Xray's Product Manager





+4

Years

Making kickass software

+5

Offices

In 3 different countries

#1

Test Management

Top rated Test Management solution for Jira

+4.500

Customers

Trust our products

+65

Countries

With customers

+370

Reviews

In the Marketplace

+450.000 Lines of Code

Written by our team

4

Languages

Available in English, German, Spanish and French +123

Features

Delivered just during 2018



Cutting-edge Test management

DISCOVER THE FUTURE OF TESTING WITH JIRA

Export Jira issues using word and excel templates

THE #1 REPORTING
APP FOR JIRA





Our Clients from the Automotive sector



























137 of the Fortune 500 trust Xpand























































































Agenda

- 1. Automotive Sector
- 2. Xray in a nutshell
- 3. How are Automotive companies using Xray?
- 4. Recent improvements with Xray 3.2
- 5. More on the "road"
- 6. Additional Resources
- 7. Q&A

1. Automotive Sector

My first car? Any guesses?

"Carro de rolamentos" (bearing car?)





Meanwhile, things have evolved...







Automotive sector is changing

"Today's vehicles have <u>at least</u> 10 million lines of mission-critical software code"

New Automotive DNA: How IoT Is Transforming The Automotive Industry, Digitalist Magazine, Aug. 2018



Changes⇔Risks Duality

Changes

- feedback & customer engagement
- Big Data & predictive & Al
- autonomous
- electric / electrified
- shared
- services
- updates
- 14.0

Risks

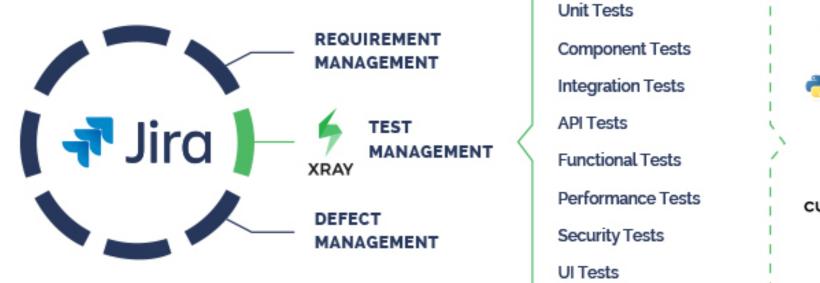
- Mitigate
- Avoid

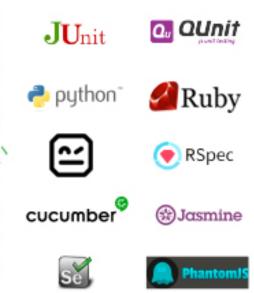


2. Xray in a nutshell



Xray





Manual and Automated



Principles of XRAY

We build XRAY so that it...

- 1. Gives you the tool, and don't dictate how you should do it
- Gives you freedom, so you can adapt the tool to your team and your processes
- 3. Gives you the power, so you can have greater control over your process
- 4. Gives you possibilities, so you can leverage the power of other tools



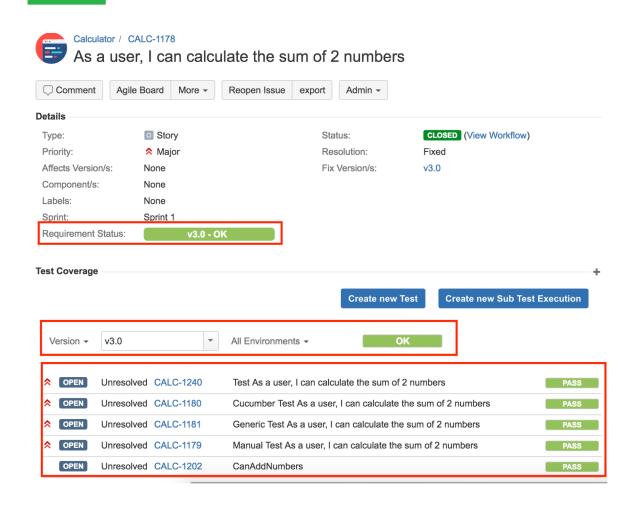
XRAY and your teams

We let you...

- 1. Focus on the work, while XRAY does the boring stuff
- 2. Improve collaboration, as developers and testers have more time
- 3. Get things done right the first time, so you deploy with confidence



Real status of requirements with in-context information



With Xray:

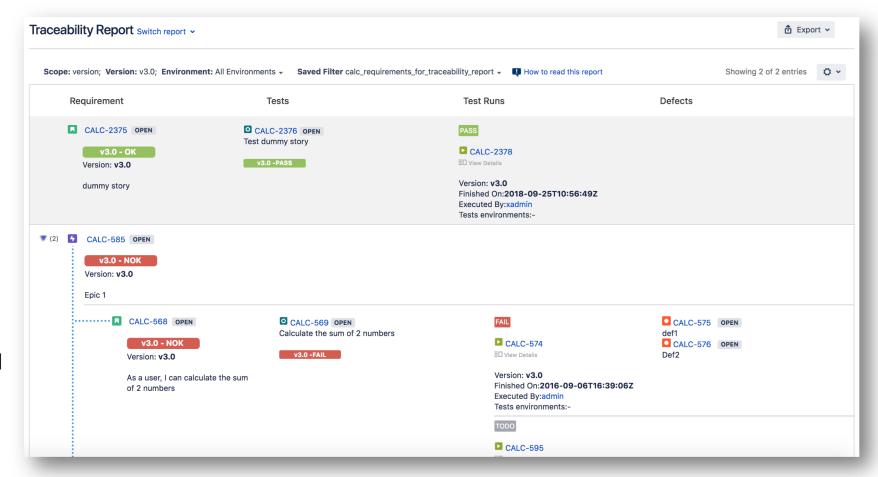
- Real-time information about the coverage status of the requirement for a given version
- Real-time information about the associated test results, for a given version
- ✓ A "requirement" may be any issue type you may have; test coverage can be made in any issue type



Full Traceability



- Shows the requirement traceability, from requirements to defects.
- Visibility of coverage at different levels (e.g. Epic and Story)



Coverage Analysis



This requirement for the sensor is **UNCOVERED**

This requirement has no linked Tests

... is **OK** on **v3.0**

All Tests related with that requirement are PASSING for v3.0

... is **OK** on **v4.0**

All Tests related with that requirement are PASSING for v4.0

... is **NOK** on **v3.0**

Some Test(s) related with that requirement are FAILING for v3.0

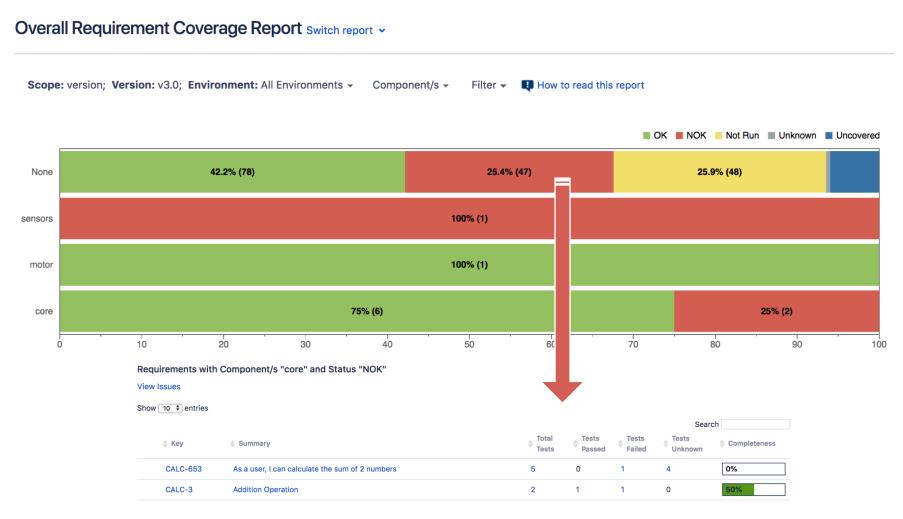
... is **NOK** on v4.0 in **configuration** X

Some Test(s) related with that requirement are FAILING for v4.0 in configuration X

Coverage Analysis



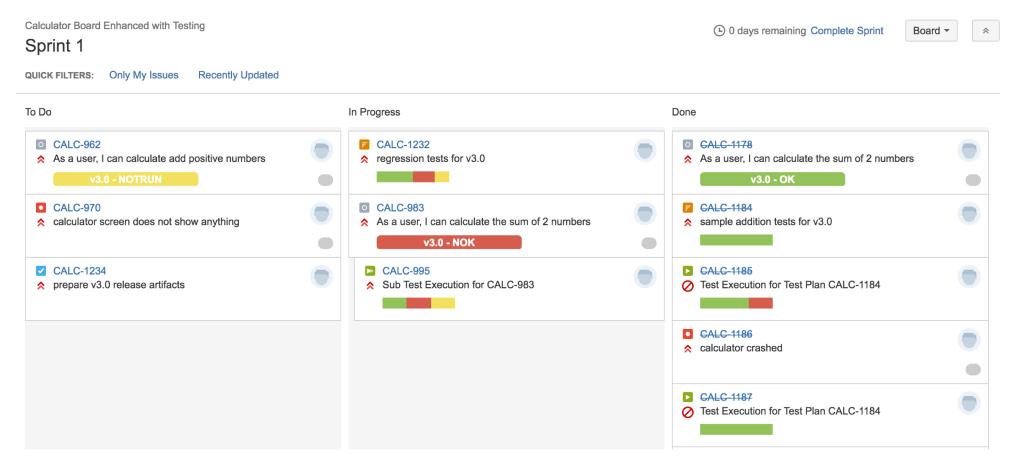
- Provides a quick way of evaluating the current (coverage) status of your project's requirements, so you will be able to see if they are ready or not.
- Ability to make the analysis by component, priority or any other field of requirement
- Ability to drill-down





Enhanced Agile Boards with Xray

Xray gives you visibility of your testing results and its progress right in your existing Boards.

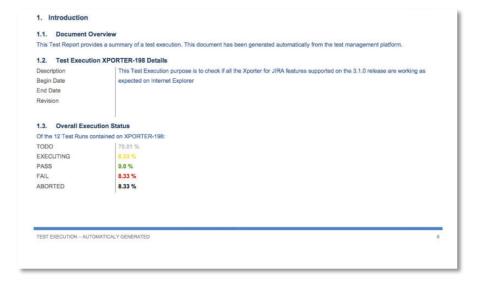


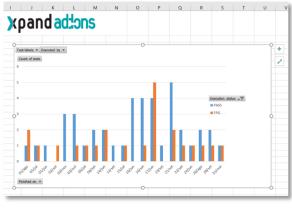


Reports as deliverable assets



Use Xporter to generate fully customizable Word, Excel or PDF files with your testing reports to give to your management, colleagues or to your customers (e.g. Test specification, Test Execution progress and respective results, Test Plan details).





Cey	Summary	Test Type	#Req	#Def	Test Sets	Assignee	Status
PORTER 138	Xporter for JIRA - French Language translation	Manual	3	0		rmbr	ABORTED
KPORTER 137	Xporter for JIRA Workflow Post Function	Manual	4	1	XPORTER -470	pamp	TODO
KPORTER 133	Xporter for JIRA License Management	Manual	4	0	XPORTER -370 XPORTER -470	mjbm	T000
XPORTER 102	Xporter for JIRA Permission Schemes Test	Manual	8	0	XPORTER -370 XPORTER -470	lpsg	EXECUTING
XPORTER 99	Xporter for JIRA Manage Templates Test	Manual	7	1	XPORTER -470	pmmr	FAIL
XPORTER -95	Xporter for JIRA Global Settings - Global Permissions - Show Xporter Menu	Manual	5	0	XPORTER -370	mjbm	T000
XPORTER -92	Xporter for JIRA Global Settings - Global Permissions - Allow anonymous requests	Manual	5	0	XPORTER -370 XPORTER -470	mjbm	TODO
KPORTER 91	Xporter for JIRA Global Settings - Global Permissions - Enable Xporter for JIRA for all projects and all users	Manual	7	0	XPORTER -370 XPORTER -470	mjbm	T000
XPORTER -89	Xporter for JIRA Global Settings - Bulk Export - Requests limit	Manual	7	0	XPORTER -470	mjbm	TODG
KPORTER 86	Xporter for JIRA Global Settings - Bulk Export -	Manual	7	0	XPORTER -470	mjbm	T000

3. How are Automotive companies using Xray?



Xray in the Automotive sector

Traditional Manual Testing

- regression
- non automatable or hard to automate tests

Automated Testing Visibility (>> increasing a lot)

- firmware testing
- hardware integration testing

4. Xray v3.2



Needs

- A. Our Jira instance is huge and getting not so fast. Anything we can do about it?
- B. It's hard to write Cucumber Tests in Jira; it needs to be friendlier and more productive...
- C. We have a bunch of environments. It is possible to manage their availability, status, etc?
- D. We need clear insight of current progress of requirements and testing...
- E. I need to see Tests across different folders, filter them out and do operations on them
- F. I want (or don't want) to get **notified** upon changes on Test's (Pre-Conditions) **specification**

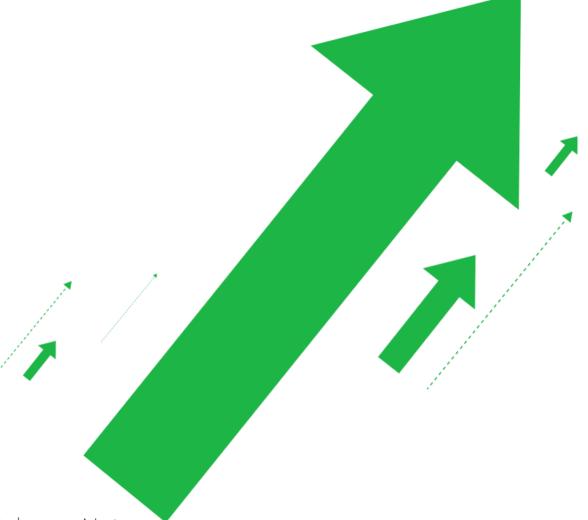


Xray 3.2 in Numbers

- 40 user stories implemented
- 26 bugs fixed

And between 3.1 and 3.2...

• 57 bugs/performance improvements fixed







Performance Improvements

Overview of what we've done:

- Pre-calculate data and use Lucene to index items by coverage
- Fetch only needed data, when needed (e.g. Reports)

Implemented:

- Test Plans issue screen with > 1000 Tests is up 50% faster
- Test Repositories an TP Board with >1000 folders load 80% faster
- REST API calls paginated and limited

Many enhancements coming ahead:

- Overall & Historical Requirement Coverage Report/Gadget
- more...

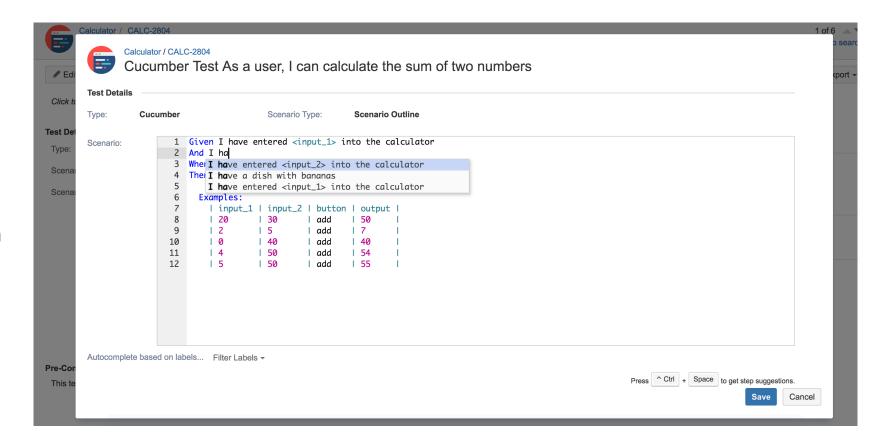




Enhanced edition for Cucumber

BDD simplified

- Enhanced near full-screen editor for Cucumber
 Tests/Pre-Conditions
- Step autocompletion, on a per-project basis

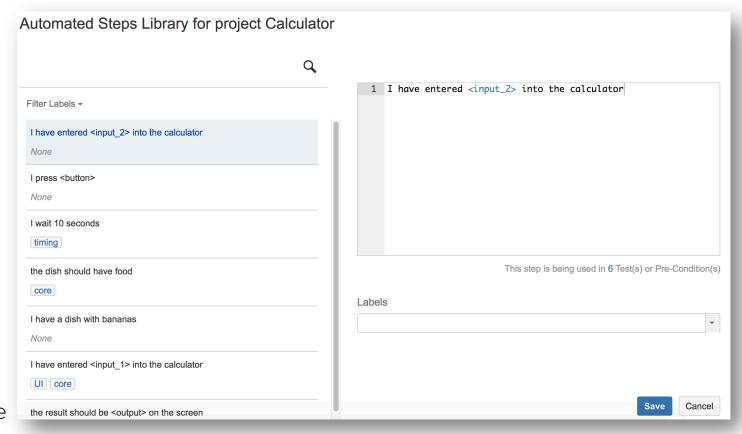




Automated Steps Library

BDD simplified

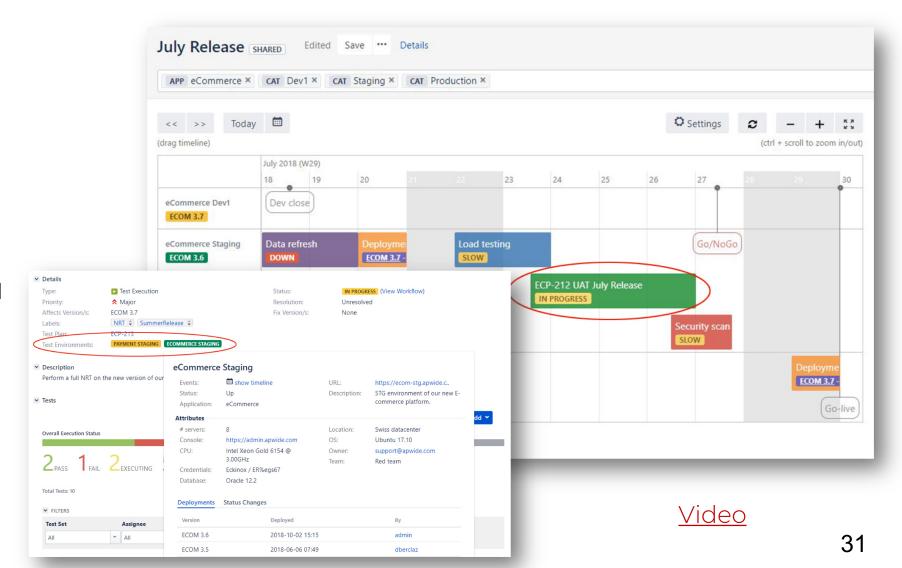
- Easy refactoring of steps
 - update steps => all Tests/Pre Conditions will be updated
 - merge => => all Tests / Pre Conditions will be updated
- Steps auto-provisioning
- No more orphaned steps!
- Track used steps => easily obtain the
 Tests/Pre-Conditions using them
- Best of all? It's... automatic ⊚





Integration with Apwide Golive

- Enhanced management for Test Environments
 - attributes
 - availability
 - version deployed
 - permissions
- Plan Test Executions and Test Plans on a Timeline
- Assess environment information across several screens of Xray





Additional gadgets

Requirements List

- analyze requirements
- track the completeness
- see hierarchical relation (Epic > Story)

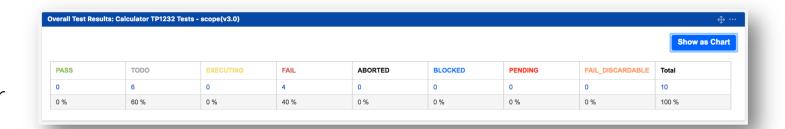
	♦ Key	Summary	Status	Fix Version	Total	Passed	Failed	Others	Completeness
	CALC-2801	As a user, I can calculate the sum of two numbers	ОК	v3.0	3	3	0	0	100%
	CALC-2797	story1	NOTRUN		1	0	0	1	0%
	CALC-2778	As a user, I can calculate the sum of two numbers	ОК	v3.0	3	3	0	0	100%
	CALC-2769	dummy story1	NOK	v3.0	1	0	1	0	0%
	CALC-2743	As a user, I can calculate the sum of two numbers	NOK	v3.0	3	2	1	0	66.7%
	CALC-2733	As a user, I can calculate the sum of two numbers	NOK	v3.0	3	2	1	0	66.7%
	CALC-2726	As a user, I can calculate the sum of two numbers	NOK	v3.0	3	0	1	2	0%
•	CALC-2703	arithmetic operations	ОК	v3.0	3	3	0	0	100%
	CALC-2607	As a user, I can calculate the sum of two numbers Serg	ок	v3.0	3	3	0	0	100%
	CALC-2630	As a user, I can calculate the sum of two numbers	NOTRUN	v3.0	4	3	0	1	75%
	CALC-2619	story2	OK	v3.0	1	1	0	0	100%

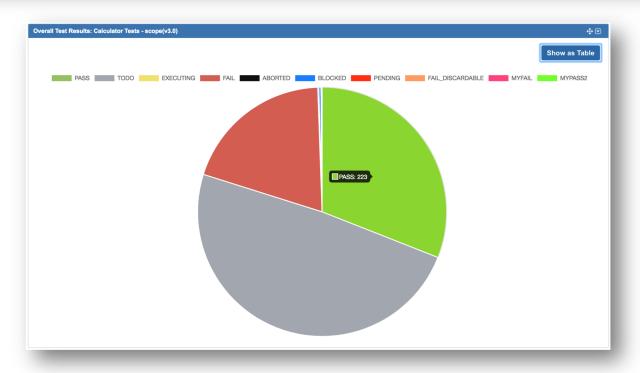


Additional gadgets

Overall Test Results

- analyze the relevant Tests for a release/Test Plan, on a specific Test Environment
- analyze overall progress of a Test Plan
- analyze a subset of Tests in some scope

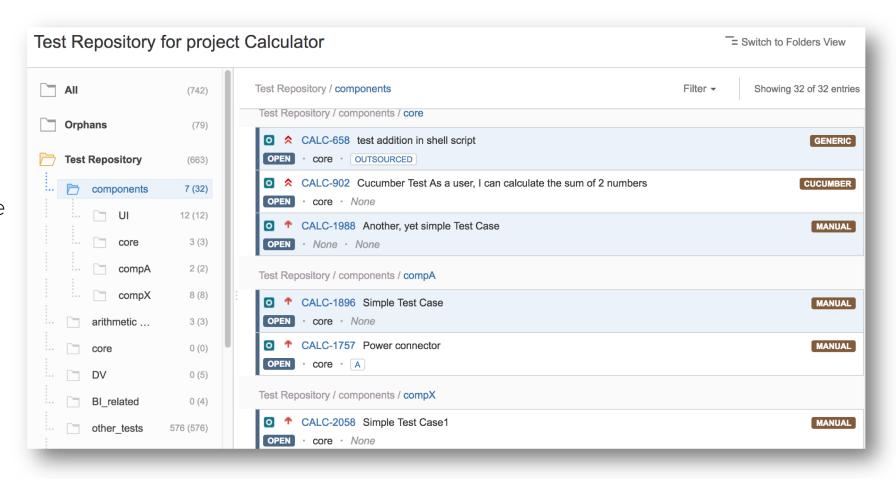






Flat View for Test Repository & Test Plan Board

As more and more people use the hierarchical test organization via the Test Repository and the Test Plan Board, we introduce a new flattened view for easy visualization and selection.





Email notifications

Greater control for changes on the specifications of Tests and Pre-Conditions

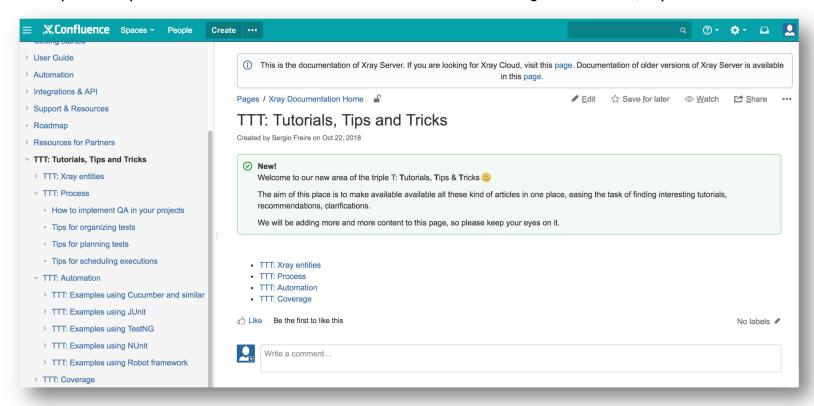
- Notifications may be configured for a specific event "Test or Pre-Condition Updated", triggered upon:
 - adding/removing/updating steps in Manual Tests
 - updating the "Generic Test Definition" of Generic Tests
 - updating the "Cucumber Scenario" of Cucumber Tests
 - updating the "Conditions" of Pre-Conditions.

Test Run Assigned	Current Assignee (Delete)	Add
Test Run Status set to Final	Current Assignee (Delete)	Add
Precedent Test Run Status set to Final	Current Assignee (Delete)	Add
Test or Pre-Condition Updated	Current Assignee (Delete)	Add



TTT – Tutorials, Tips and Tricks

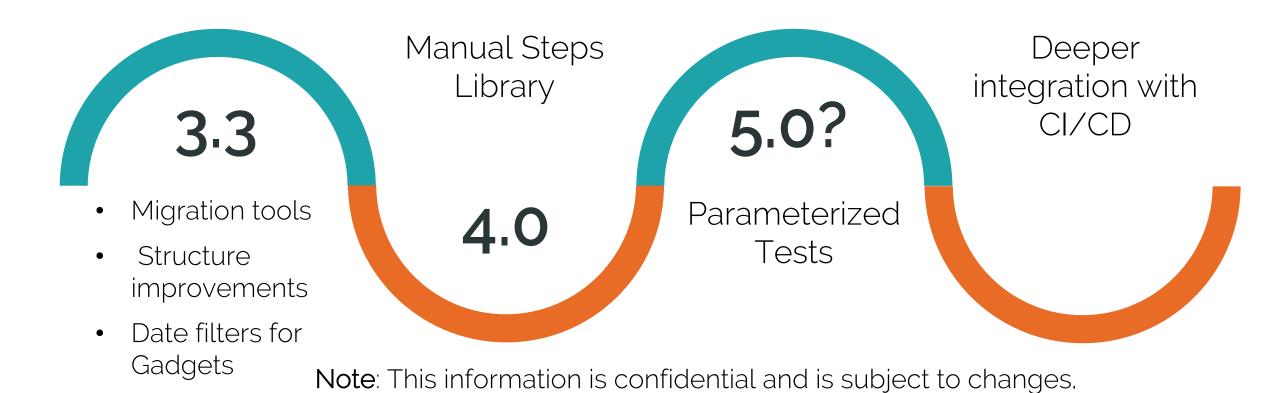
A special place in our documentation with many tutorials, tips and tricks.



https://confluence.xpand-it.com/display/XRAY/TTT%3A+Tutorials%2C+Tips+and+Tricks

5. More on the "road"

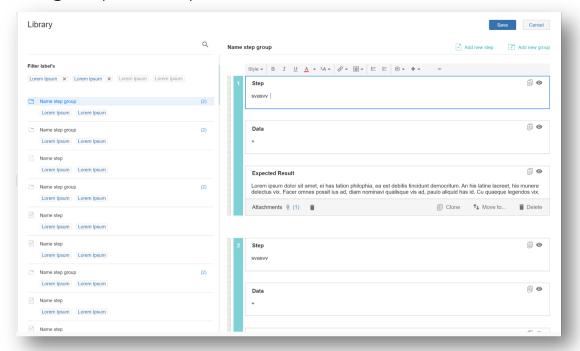
Xray Server Roadmap

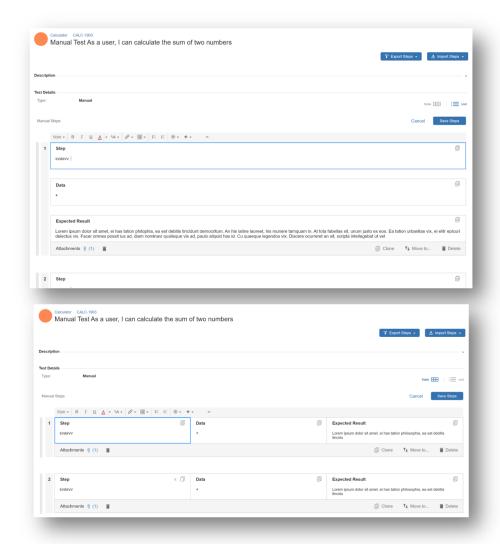




Manual Steps Library (Sneak Peek)

- 1. Enhanced editor with Grid and List views
- 2. Shared steps
- 3. Shared groups of steps





Note: This information is confidential and is subject to changes.

6. Additional Resources



Resources

- Xray documentation
 - http://confluence.xpand-it.com/display/XRAY
- Xray web site & blog
 - getxray.app
 - getxray.app/blog/
- Xray in social networks
 - <u>Twitter</u>
 - <u>Facebook</u>
 - <u>LinkedIn</u>
 - <u>YouTube</u>
- Xray Sandbox (shared environment)
 - <u>http://sandbox.xpand-it.com</u>

7. Q&A





Xpand IT **getxray.app**

mail@getxray.app @XrayApp