Agile Enhancements

Since Xray 2.0, Xray integrates with Agile to give you a flexible way of viewing, managing and reporting some Xray issue types.

Agile boards are an excellent way to visually keep track of the progress of project's tasks.

Usually, you use Agile boards to manage sprint-related issues, such as user stories, tasks and defects.

You can extend the usage of Agile boards to make them also testing-aware.

Agile boards are great, but they do not replace other types of reports where more information may be consulted and analyzed.

- Using Xray issues in Agile boards
- Usage scenarios
    - Requirement Status on Agile Board
    - Quick view of Executions for Requirements from Agile Board
    - Test Plans as a way to consolidate test results

Using Xray issues in Agile boards

Since Xray uses Jira issue types for most of its entities, in theory, you're able to include them in your boards. However, the reason may be different for each one of them.

Having in mind that **Tests** and **Pre-Conditions** are like test case templates, including them in a board does not make sense unless you want to track the specification progress, in case you have a specific workflow implemented for that purpose. The same applies to **Test Sets**. Some may prefer to use one or more Task issue(s) for dealing with the specification effort of Tests and/or Test Sets.

Including individual Test Runs would not be that useful. Since a Test may have multiple runs, your board would be over-populated. Moreover, Test Runs are not issue types so they cannot be included in Agile boards.

Test Executions may be assigned to a sprint and may be tracked on a board. However, this may not scale if Continuous Integration is being used, due to the potential huge amount of Test Executions that may be created.

Sub-Test Executions are an excellent way to visually identify the associated Test Executions that validate a given requirement, since they're created as sub-tasks for the requirement issue and will appear accordingly in the board. A limitation is that a Sub-Test Execution is a sub-task of only one issue, in this case a requirement. Sometimes, this may not be applicable because it may be necessary to have Test Executions with Tests associated with multiple requirements.

A **Test Plan** tracks a group of Tests, regardless of the number of Test Executions for a given version of the SUT. Test Plans may be used to group the Tests in the scope a given sprint and thus, consolidate the test results.

In sum, you may extend Agile boards for testing purposes to address two points:

- specification & organization
- planning & execution

	Use case	Notes
Test	- track the test specification progress/lifecycle (e.g., a specific workflow is being monitored for reviewing purposes)	
Pre-Condition	- track the test specification progress/lifecycle (e.g., a specific workflow is being monitored for reviewing purposes)	
Test Set	- track the test specification progress/lifecycle (e.g., a specific workflow is being monitored for reviewing purposes)	

Test Execution	- track the daily execution-related tasks - including "Test Execution Status" custom field provides a quick overview of all the Tests that are part of the Test Execution	hard to scale, specialy if CI is being adopted
Sub Test Execution	- per each requirement, track the execution of the related Tests - including "Test Execution Status" custom field provides a quick overview of all the Tests that are part of the Sub-Test Execution	hard to scale with multiple executions
Test Plan	- using scoped Test Plans (i.e., in a context of a sprint) quickly provides an overview of the progress of the execution of your Tests - including "Test Plan Status" custom field provides a quick overview of all the Tests that are part of the Test Plan	requires adding the "Sprint" field to the Test Plan

Usage scenarios

A typical concern with Agile boards is having them as clear and as "non-polluted" as possible, so you can focus on what's important.

Some relevant and high-level information may be obtained from specific custom fields associated with requirements, or (Sub) Test Executions, or Test Plans. These fields may be included in the board cards.

Note that you are limited on the number of fields (3) you're able to include in each card on the board.

Next, you may find some possible scenarios for integrating testing into your Agile boards, although you're free to adapt each one to your needs.
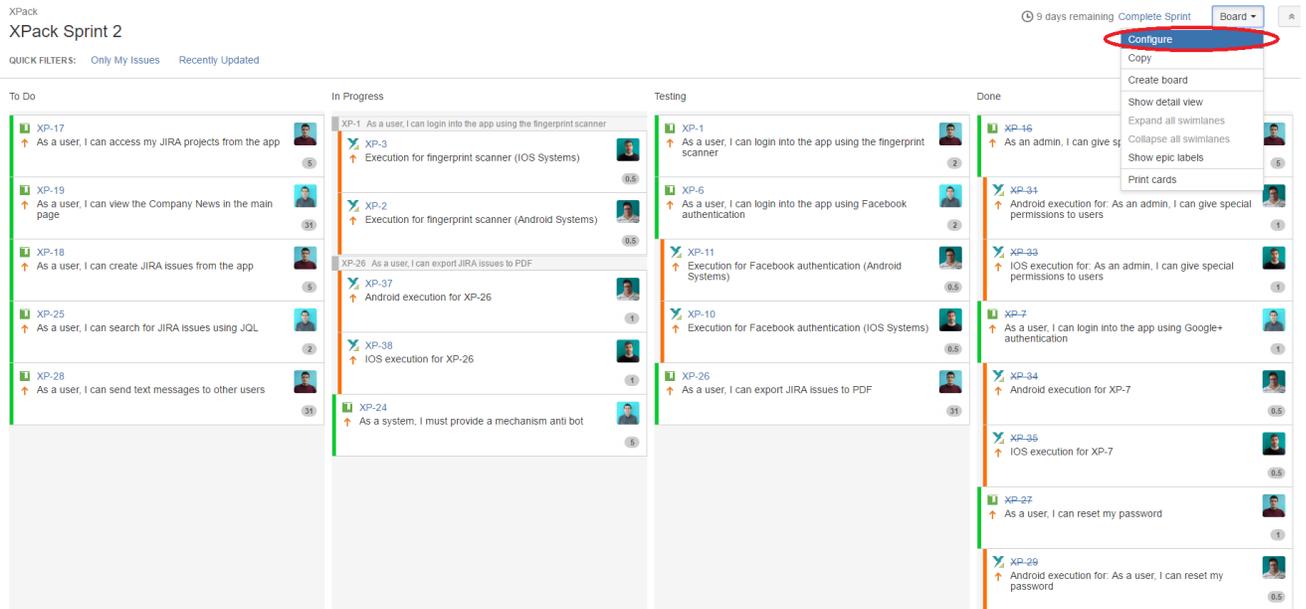
Requirement Status on Agile Board

You can add the **Requirement Status** custom field to the requirement issues in the Active Sprint. It's actually a useful feature provided by Jira. It gives you the ability to add custom fields in both views: Active Sprint and Backlog. Adding certain Xray custom fields, such as the Requirement Status, may be a good for your testing teams because it provides a quick overview of the current statuses of the requirement issues.
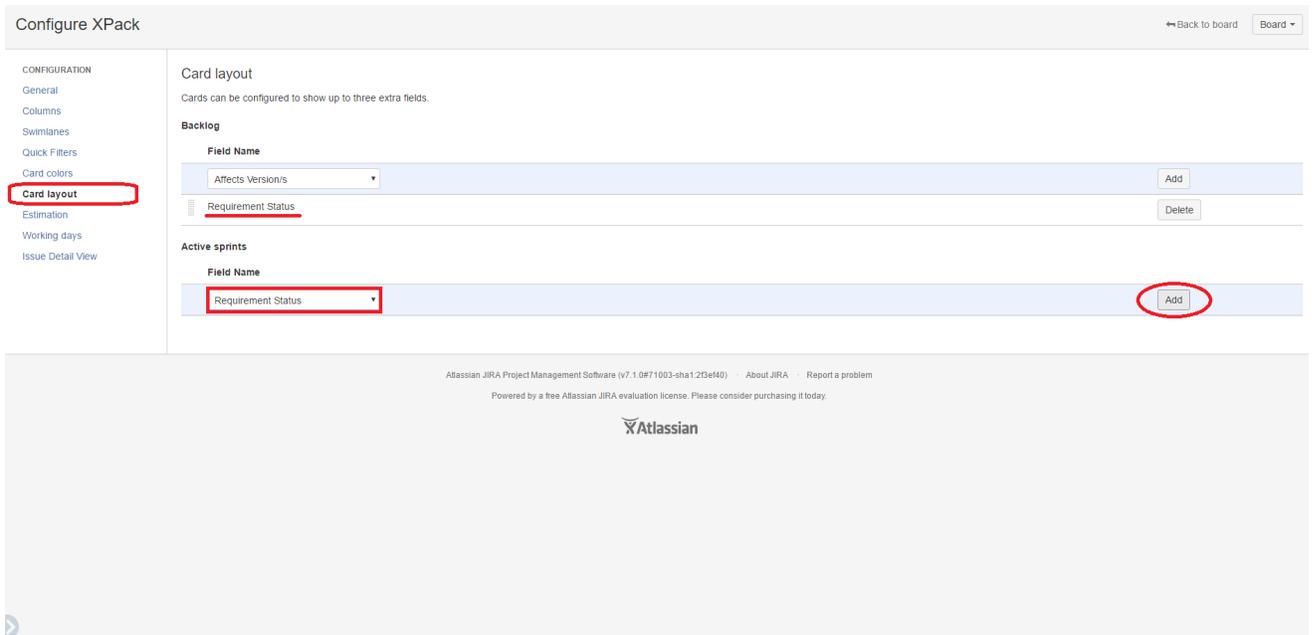
To add the Requirement Status to the Agile Board, perform the following steps:

Step 1: Open the Agile Board you wish to add the Requirement Status.

Step 2: Click the **Board** button and then click the **Configure** button.

XPack
XPack Sprint 2

9 days remaining Complete Sprint   Board ▾

Configure
Copy
Create board
Show detail view
Expand all swimlanes
Collapse all swimlanes
Show epic labels
Print cards

QUICK FILTERS: Only My Issues   Recently Updated

To Do

XP-17
↑ As a user, I can access my JIRA projects from the app
5

XP-19
↑ As a user, I can view the Company News in the main page
31

XP-18
↑ As a user, I can create JIRA issues from the app
5

XP-25
↑ As a user, I can search for JIRA issues using JQL
2

XP-28
↑ As a user, I can send text messages to other users
31

In Progress

XP-1 As a user, I can login into the app using the fingerprint scanner

XP-3
↑ Execution for fingerprint scanner (IOS Systems)
0.5

XP-2
↑ Execution for fingerprint scanner (Android Systems)
0.5

XP-26 As a user, I can export JIRA issues to PDF

XP-37
↑ Android execution for XP-26
1

XP-38
↑ IOS execution for XP-26
1

XP-24
↑ As a system, I must provide a mechanism anti bot
5

Testing

XP-1
↑ As a user, I can login into the app using the fingerprint scanner
2

XP-6
↑ As a user, I can login into the app using Facebook authentication
2

XP-11
↑ Execution for Facebook authentication (Android Systems)
0.5

XP-10
↑ Execution for Facebook authentication (IOS Systems)
0.5

XP-26
↑ As a user, I can export JIRA issues to PDF
31

Done

XP-16
↑ As an admin, I can give sp
5

XP-31
↑ Android execution for: As an admin, I can give special permissions to users
1

XP-33
↑ IOS execution for: As an admin, I can give special permissions to users
1

XP-7
↑ As a user, I can login into the app using Google+ authentication
1

XP-34
↑ Android execution for XP-7
0.5

XP-35
↑ IOS execution for XP-7
0.5

XP-27
↑ As a user, I can reset my password
1

XP-29
↑ Android execution for: As a user, I can reset my password
0.5

Step 3: Click the **Card Layout** and add the **Requirement Status** to the **Backlog** and **Active Sprint**.

Configure XPack

← Back to board   Board ▾

CONFIGURATION
General
Columns
Swimlanes
Quick Filters
Card colors
Card layout
Estimation
Working days
Issue Detail View

Card layout
Cards can be configured to show up to three extra fields.

Backlog
Field Name

Affects Version/s ▼   Add

Requirement Status   Delete

Active sprints
Field Name

Requirement Status ▼   Add

Atlassian JIRA Project Management Software (v7.1.0#71003-sha1:2f3ef40) · About JIRA · Report a problem
Powered by a free Atlassian JIRA evaluation license. Please consider purchasing it today.
Atlassian

Step 4: The Backlog View and the Active Sprint View now have the **Requirement Status** custom field.

1. Backlog View

2. Active Sprint View

As a suggestion, you may also add the **Test Environments** custom field. It may be useful to have different **Sub-Test Executions** to test the requirement in different environments.

Quick view of Executions for Requirements from Agile Board

Creating a Sub-Test Execution from the Requirement Issue will let you track related executions on the Agile Board, so you will see all work that needs to be done to "finish" a requirement, either by developers or testers.

You can have a quick view of all test executions of a requirement, directly from the Jira Agile board, as long as the executions are created as Sub-

Test Execution issues.

To Do

XP-17
As a user, I can access my JIRA projects from the app
UNCOVERED
5

XP-19
As a user, I can view the Company News in the main page
UNCOVERED
31

XP-18
As a user, I can create JIRA issues from the app
UNCOVERED
5

XP-25
As a user, I can search for JIRA issues using JQL
UNCOVERED
2

XP-28
As a user, I can send text messages to other users
UNCOVERED
31

In Progress

XP-1 As a user, I can login into the app using the fingerprint scanner

XP-3
Execution for fingerprint scanner (IOS Systems)
0.5

XP-2
Execution for fingerprint scanner (Android Systems)
0.5

XP-26 As a user, I can export JIRA issues to PDF

XP-37
Android execution for XP-26
1

XP-38
IOS execution for XP-26
1

XP-24
As a system, I must provide a mechanism anti bot
UNCOVERED
5

Testing

XP-1
As a user, I can login into the app using the fingerprint scanner
NOTRUN
2

XP-6
As a user, I can login into the app using Facebook authentication
NOTRUN
2

XP-11
Execution for Facebook authentication (Android Systems)
0.5

XP-10
Execution for Facebook authentication (IOS Systems)
0.5

XP-26
As a user, I can export JIRA issues to PDF
NOTRUN
31

Done

XP-16
As an admin, I can give special permissions to users
OK
5

XP-31
Android execution for: As an admin, I can give special permissions to users
1

XP-33
IOS execution for: As an admin, I can give special permissions to users
1

XP-7
As a user, I can login into the app using Google+ authentication
OK
1

XP-34
Android execution for XP-7
0.5

XP-35
IOS execution for XP-7
0.5

XP-27
As a user, I can reset my password
NOK
1

XP-29
Android execution for: As a user, I can reset my password
0.5

XP-30
IOS execution for: As a user, I can reset my password
0.5

Test Plans as a way to consolidate test results

You may create one or more Test Plans and associate them with a given Sprint.

By including the **Test Plan Status** custom field, you are able to see right away the overall progress of your Test Plans.

You may also include the **Test Execution Status** custom field in your cards; thus, Sub-Test Executions progress may be promptly visualized.

Requirement Status may also be included in the card configuration, allowing you to assess the coverage status of the requirements present on the board.

Sprint 1

To Do	In Progress	Done

To Do

CALC-838
As a user, I can calculate the sum of 2 numbers
v3.0 - NOTRUN

CALC-848
Sub Test Execution for CALC-838

CALC-954
Sub Test Execution for CALC-838

In Progress

CALC-970
plan for v3.0, sprint 1

CALC-962
As a user, I can calculate the multiplication of 2 numbers
v3.0 - OK

CALC-966
Sub Test Execution for CALC-962

CALC-967
As a user, I can subtract 2 numbers
v3.0 - NOK

CALC-969
Sub Test Execution for CALC-967

Done

CALC-961
As a user, I can calculate the division of 2 numbers
v3.0 - OK

CALC-964
Sub Test Execution for CALC-961