Time Tracking

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Xray uses different issue types for implementing the testing process (with the exception of Test Runs).

This means that you are able to manually log time on those issues using Jira out-of-the-box. If you have some other apps or integrations that are based on the Time Tracking field, then you are going to have it available there also.



Please note

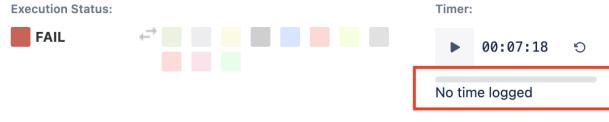
Only some issue types have time tracking enabled by default: Test Execution, Test Plan.

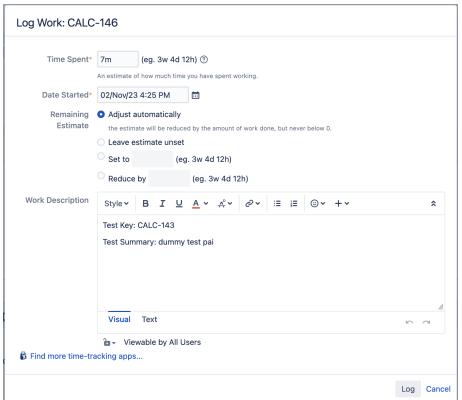
However, you can then easily add Time Tracking features to the other issue types (Test, Pre-Condition, Test Set) by editing the respective view /default screens and adding the "Time Tracking" field.

The question then arises: How do I log the time I spent executing some tests runs?

First, Xray automatically calculates the <u>elapsed time</u> using the recorded time from the Timer. For old/legacy Test Runs, before the Timer existed, the Test Run elapsed time was based on the "Started on" and "Finished on" dates of the Test Run. Some reports (e.g., Test Runs Report) show this value.

Concerning the <u>logged time</u>, for time tracking purpose, the time that you spend executing some Test Run is <u>not</u> logged automatically in Jira; you can manually log it on the Test Execution issue though, either from the Test Run execution screen using a logging shortcut/Timer or from the corresponding Test Execution issue using the standard time tracking mechanism from Jira.

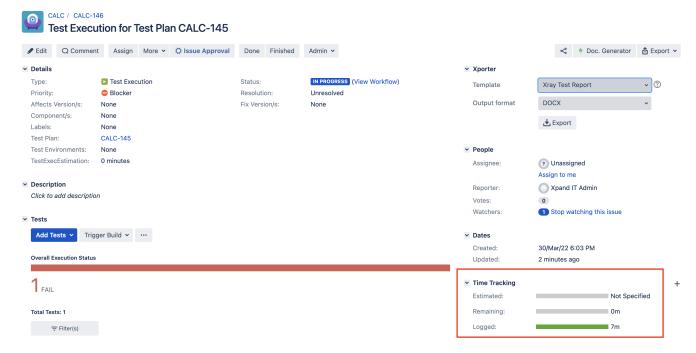




Timer:



7m logged



Remember that no matter what, if logged, this time is always logged on the Test Execution issue and is available on the related "Time Spent" custom field. It's not mandatory to log time; use it, if you need it.

In sum, the elapsed time (which is calculated automatically from the Timer) and the actual logged time are two different things. You can choose to log exactly the displayed elapsed time, report another value or even not log anything.

Possible usage scenarios for logging time

The following table presents some possible usage scenarios for logging time in Xray issue types.

Issue type	Purpose	Notes
Test	log time related to specification	don't log time related to execution here because Test issues are like test templates
Pre- Condition	log time related to specification	
Test Set	log time related to the creation of Test Set, eventually considering the time related to the specification of related Tests and Pre-Conditions	
(Sub)Test Execution		
Test Plan	log time related to environment setup, planning	don't log time related to execution twice (both in the Test Plan and in the related Test Executions)

Possible usage scenarios for using time estimates

The following table presents some possible usage scenarios for using time estimates, through the "Original Estimate" field, in Xray issue types.

Issue type	Purpose	Notes

Test	 estimated execution duration for this Test estimated specification time for this Test 	using "estimated execution time" may be more adequate; however if you choose that approach, you may have to decide where to report the estimation for the specification (e.g. in a Test Set or in some specification task)
Pre- Condition	 estimated execution duration for this Pre- Condition estimated specification time for this Pre-Condition 	see notes for Test issue
Test Set	estimated time for specifying all the Tests being grouped within this Test Set	
(Sub) Test Executi on	estimated time for running all related Test Runs	
Test Plan	 estimated time related only with environment setup, planning estimated time for all the effort associated with the validation of the Tests within the plan, including environment setup and multiple iterations 	your estimated time aim for the Test Plan should match the aim of the logged time

Comparisons of estimates vs elapsed time

At individual Test Run level, original estimated vs effective elapsed time

For obtaining the elapsed time for each Test Run, you may use the Test Runs Report. Then you may export it to CSV.

You would need however to export also Test issues from the Issue search page and show the "Original Estimate" field. Then you could cross the two results in order to have a one-to-one comparison.

At Test Execution level, comparing the sum of the estimated times for each Test *vs* the sum of the elapsed time for all the Test Runs

In this case we compare estimations on Test issues against the actual elapsed time (not the logged time/work logs on the Test Execution).

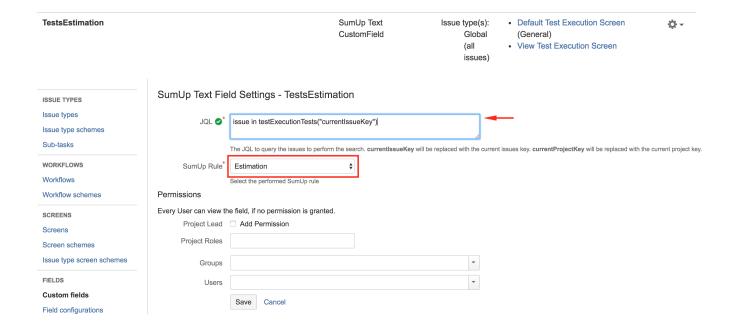
In order to obtain the "the sum of the estimated times for the Tests that are part of the Test Execution", we can either do an Issue Search based on the Tests and show the Original Estimate column, or we can use an additional add-on to build a calculated custom field. sumUp add-on is a good solution for that.

With "sumUp" you may define a rule and then you can use a custom field which calculates the value based on it.

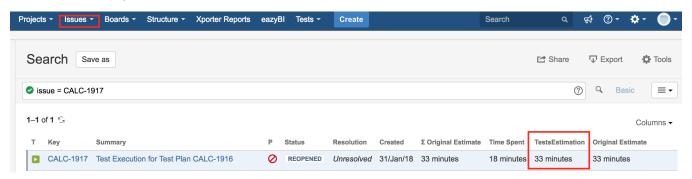
a) create a configuration



b) create a custom field (e.g. "TestsEstimation") of type "SumUp Text" and configure it to use the "Estimation" created previously; associate it to the Test Execution screens



Then in Issues search page, that information can be seen as a column.



In order to obtain the sum of the elapsed time, you may use the "Test Executions Report", which you can export to CSV if you wish to cross the values.

At Test Execution level, comparing the sum of the estimated times for each Test *vs* the sum of the logged time (work logs)

In this case we assume people log time on the Test Execution issues which we want to compare against the estimations made on the Test issues.

In order to obtain "the sum of the estimated times for each Test", we can follow the same approach we did above for creating a calculated custom field with its value.

We can then just compare that value of that custom field (e.g. "TestsEstimation") to the "Time Spent" directly.

If you prefer to use estimation on the Test Execution field, you may use the "TestsEstimation" as an auxiliary field for filling out the value of the "Original Estimate" on the Test Execution. Then you can use the standard "Original Estimate" vs "Time Spent" comparisons.



Recommendations

Using time estimates and logging time depend on your use case. You can choose to use both or just one of them.

General recommendations:

- Use the "Original Estimate" on Test issues to estimate the execution duration, so that you can make some calculations based on it.
- If you're doing testing services, using time estimates for Test Sets may be useful if you want to have an idea of the associated effort of the Tests
 you aim to implement related with that Test Set.
- The Timer on the execution screen records the elapsed time; you may pause it whenever you need it; this elapsed time is not logged by default, and may be different from the logged time.
- Log execution time in Test Executions right after you finish a given Test Run, using the log time shortcut on the Test Run execution screen, which
 will pick by default the elapsed time recorded with the Timer; you may also log a custom elapsed time.
- On the Test Executions List report, or if listing Test Executions issues elsewhere, use the "Time Spent" custom field to show the logged time on the Test Execution.