

# 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 elapsed time 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 logged time, for time tracking purpose, the time that you spend executing some Test Run is not 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.

Execution Status:

 **FAIL**



Timer:



No time logged

Log Work: CALC-146

Time Spent\*  (eg. 3w 4d 12h) ⓘ

An estimate of how much time you have spent working.

Date Started\*  ⓘ

Remaining Estimate ☒ Adjust automatically

the estimate will be reduced by the amount of work done, but never below 0.

☐ Leave estimate unset

☐ Set to  (eg. 3w 4d 12h)

☐ Reduce by  (eg. 3w 4d 12h)

Work Description

Style ▾ **B** *I* U **A** ▾ **A**° ▾  ▾    ▾  ▾

Test Key: CALC-143

Test Summary: dummy test pai

**Visual** Text

 Viewable by All Users

 Find more time-tracking apps...

Timer:



7m logged

CALC / CALC-146

Test Execution for Test Plan CALC-145

Edit
Comment
Assign
More
Issue Approval
Done
Finished
Admin

Details

Type: Test Execution
Priority: Blocker
Affects Version/s: None
Component/s: None
Labels: None
Test Plan: CALC-145
Test Environments: None
TestExecEstimation: 0 minutes

Status: IN PROGRESS (View Workflow)
Resolution: Unresolved
Fix Version/s: None

Description

Click to add description

Tests

Add Tests
Trigger Build

Overall Execution Status

1 FAIL

Total Tests: 1
Filter(s)

Xporter

Template: Xray Test Report
Output format: DOCX
Export

People

Assignee: Unassigned
Reporter: Xpand IT Admin
Votes: 0
Watchers: Stop watching this issue

Dates

Created: 30/Mar/22 6:03 PM
Updated: 2 minutes ago

Time Tracking

Estimated: Not Specified
Remaining: 0m
Logged: 7m

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	log time related to the execution of related Test runs	
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
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Test	<ul style="list-style-type: none"> <li>estimated execution duration for this Test</li> <li>estimated specification time for this Test</li> </ul>	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	<ul style="list-style-type: none"> <li>estimated execution duration for this Pre-Condition</li> <li>estimated specification time for this Pre-Condition</li> </ul>	<i>see notes for Test issue</i>
Test Set	estimated time for specifying all the Tests being grouped within this Test Set	
(Sub) Test Execution	estimated time for running all related Test Runs	
Test Plan	<ul style="list-style-type: none"> <li>estimated time related only with environment setup, planning</li> <li>estimated time for all the effort associated with the validation of the Tests within the plan, including environment setup and multiple iterations</li> </ul>	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

Administration
Search JIRA admin

Applications
Projects
Issues
Add-ons
User management
System
Structure

ATLASSIAN MARKETPLACE
Find new add-ons
Manage add-ons

SUMUP-PLUGIN
Configuration
User Permissions

SumUp-Add-On Configuration

Custom name	Field	Method	Output Format	Input Format
Estimation	Original Estimate	Summarize Values	2 minutes	Default

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

TestsEstimation

SumUp Text CustomField

Issue type(s):  
Global (all issues)

- Default Test Execution Screen (General)
- View Test Execution Screen

ISSUE TYPES

Issue types

Issue type schemes

Sub-tasks

WORKFLOWS

Workflows

Workflow schemes

SCREENS

Screens

Screen schemes

Issue type screen schemes

FIELDS

Custom fields

Field configurations

SumUp Text Field Settings - TestsEstimation

JQL

issue in testExecutionTests("currentIssueKey")

The JQL to query the issues to perform the search. **currentIssueKey** will be replaced with the current issues key. **currentProjectKey** will be replaced with the current project key.

SumUp Rule \*

Estimation

Select the performed SumUp rule

Permissions

Every User can view the field, if no permission is granted.

Project Lead ☐ Add Permission

Project Roles

Groups

Users

Save Cancel

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

Projects

Issues

Boards

Structure

Xporter Reports

easyBI

Tests

Create

Search

Search

Save as

issue = CALC-1917

?

Basic

1-1 of 1

Columns

T	Key	Summary	P	Status	Resolution	Created	Σ Original Estimate	Time Spent	TestsEstimation	Original Estimate
	CALC-1917	Test Execution for Test Plan CALC-1916		REOPENED	Unresolved	31/Jan/18	33 minutes	18 minutes	33 minutes	33 minutes

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.

Projects ▾	Issues ▾	Boards ▾	Structure ▾	Xporter Reports	easyBI	Tests ▾	Create	Search	🔍	🔊	🔗	⚙️	🌐
<div>Search <input type="text" value="Save as"/></div> <div> <div>🔍 issue = CALC-1917</div> <div>🔍 Basic</div> </div>													
1-1 of 1													
T	Key	Summary	P	Status	Resolution	Created	Σ Original Estimate	Time Spent	TestsEstimation	Original Estimate	Columns ▾		
🟢	CALC-1917	Test Execution for Test Plan CALC-1916	🚫	REOPENED	Unresolved	31/Jan/18	33 minutes	18 minutes	33 minutes	33 minutes			

## 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.