

# Automatically log work time when the user uses a "Stop Progress" transition

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## Features used to implement the example

- [Mathematical and date-time expression calculator](#)

## Example: Automatically log work time when the user uses a "Stop Progress" transition

Is it possible to log work using a post-function? Are there any other means of achieving this?

What we want to achieve is to automatically log work time when the user presses the Stop Progress button, either by automatically logging the work time or by setting the time in the Work Time field in the stop progress screen.

Yes, you can do it. You have to use the following elements:

- Virtual field "**Total time spent (minutes)**". Writing into this virtual field allows you to log time
- Virtual field "**Current date and time**"
- An auxiliary custom field of type **Date Time** to store the time where you start progress. In the example I call this field "**Start Progress Time**"
- Post-function [Mathematical and date-time expression calculator](#) to do all the calculations and assignments into virtual field "**Total time spent (minutes)**"

We only need to insert post-function [Mathematical and date-time expression calculator](#) into two transitions: "**Start Progress**" and "**Stop Progress**".

**Transition "Start Progress"**: We insert post-function [Mathematical and date-time expression calculator](#) in transition "**Start Progress**" to store into custom field "**Start Progress Time**" the exact moment when you begin working on the issue. This custom field should not be present in edit screen since you only want it to be modified by this post-function. Let's see in screenshots how to do it:

Target field:

Start Progress Time

Formula:

{00057}

Once configured, the transition will look like this:

All Conditions (0) Validators (0) Post Functions (7)

Add a new post function to the unconditional result of the transition.

Field **Start Progress Time** will be assigned with the calculation result of the formula:  
**{Current date and time}**  
Edit | Move Down | Delete

THEN

**Transition "Stop Progress"**: We insert post-function [Mathematical and date-time expression calculator](#) in transition **"Stop Progress"** to calculate the true time passed since **"Start Progress"** to **"Stop Progress"**, and add this time to the value already present in virtual field **"Total time spent (minutes)"**. Let's see how to do it:

Target field:

Total time spent (minutes)

Formula:

```
{00025}+({00057}-{11400})/{MINUTE}
```

Once configured, the transition will look like this:

All Conditions (1) Validators (0) Post Functions (7)

Add a new post function to the unconditional result of the transition.

Field **Total time spent (minutes)** will be assigned with the calculation result of the formula:  
**{Total time spent (minutes)}+({Current date and time}-{Start Progress Time})/{MINUTE}**  
Edit | Move Down | Delete

THEN

This solution trims seconds passed since last whole minute, that is, if time passed since **"Start Progress"** to **"Stop Progress"** were 35 minutes 22 seconds, logged time would be 35 minutes. I could add a new virtual field **"Total time spent (seconds)"** to enable a resolution up to seconds.

Since version 2.2.39 you can do the time calculation considering only a particular work schedule, i.e., only the days and times when actual work is done. To do it you should use the following formula instead:

```
timeDifference({00057}, {nnnnn}, "my_schedule", LOCAL) / {MINUTE}
```

Where **my\_schedule** is the name of your particular work schedule. You define your schedule using [Schedules Definition Grammar](#) at Administration > Add-ons > JIRA WORKFLOW TOOLBOX > Schedule.

## Other examples of that function

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