

# Set "Due date" 6 natural days (or work days) earlier than a "Date Picker" custom field

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## Features used to implement the example

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

## Example: Set "Due date" 6 natural days (or work days) earlier than a "Date Picker" custom field

I tried to use the `subtractDays` function and it does not work. The due date stays empty. I tried `6 * {DAY}`, I am not sure if it is the good way. Actually, on the creation, I want to push the value "Ship date - 6 days" to "Due date".

In case you want to subtract 6 **natural days** from "Due Date", you have to use post-function [Mathematical and date-time expression calculator](#) with the following configuration:

**Target field:**  

Due date

**Formula:**  

{12200} - 6 \* {DAY}

**NUMERICAL AND DATE-TIME TERMS**  
Numeric and Date-Time field values: insert field codes with format `{nnnnn}`.  

Ship Date - [Date Picker] - {12200}

INSERT NUMERIC VALUE

Valid date-time literal formats: `yyyy/MM/dd [hh:mm]` or `yyyy-MM-dd [hh:mm]`. Time literals use format: `hh:mm`.  
There is a set of [mathematical functions](#) and [time macros and functions](#) available to be used in your expression.

Notice that:

- `{12200}` is the code for numeric value of field "Ship Date". This code depends on each Jira instance.

Once configured, transition "Create Issue" will look like this:

Transition: Create Issue
Edit
View Properties
?

Create Issue

OPEN

This is the **initial** transition in the workflow.

**Screen:** None - initial transition does not have a view.

Validators 1
Post Functions 3

The following will be processed after the transition occursAdd post function

1. Creates the issue originally.
2. Field **Due date** will be assigned with the calculation result of the formula:  
`{Ship Date} - 6 * {DAY}`
3. Fire a **Issue Created** event that can be processed by the listeners.

## Alternative implementation

In case you want to subtract **6 work days** from "**Due Date**", you have to use post-function [Mathematical and date-time expression calculator](#) with the following configuration:

Target field:

Due date

Formula:

addDaysSkippingWeekends({12200}, -6, LOCAL)

**NUMERICAL AND DATE-TIME TERMS**
Numeric and Date-Time field values: insert field codes with format `{nnnnn}`.

Ship Date - [Date Picker] - {12200}
INSERT NUMERIC VALUE

Valid date-time literal formats: `yyyy/MM/dd [hh:mm]` or `yyyy-MM-dd [hh:mm]`. Time literals use format: `hh:mm`.  
There is a set of [mathematical functions](#) and [time macros and functions](#) available to be used in your expression.

Note that:

- `{12200}` is the code for numeric value of field "**Ship Date**". This code depends on each Jira instance.

- Work days depend on timezone, since certain moment in time may be Sunday in some timezones, and Monday in other ones. In the example we are using **Jira server's local time**, but we can use any other timezone. If you want to use the **current user's time zone** you should use **USER\_LOCAL** instead.

Once configured, transition "**Create Issue**" will look like this:

Transition: Create Issue

EditView Properties?

This is the **initial** transition in the workflow.

**Screen:** None - initial transition does not have a view.

Validators 1

Post Functions 3

The following will be processed after the transition occurs

Add post function

1. Creates the issue originally.
2. Field **Due date** will be assigned with the calculation result of the formula:  
*addDaysSkippingWeekends({Ship Date}, -6, LOCAL)*
3. Fire a **Issue Created** event that can be processed by the listeners.

Since version **2.2.39**, **Jira Workflow Toolbox** supports **Custom Schedules**, and you can do all you are doing now using **addTimeSkippingWeekend s()** and **subtractDatesSkippingWeekends()** functions, and much more.

## Other examples of that function

Page: [Automatic work log with start and stop work transitions](#)  
 Page: [Automatically log work time when the user uses a "Stop Progress" transition](#)  
 Page: [Calculate the time elapsed between 2 transition executions](#)  
 Page: [Getting the number of selected values in a custom field of type Multi Select](#)  
 Page: [Implement a form with a series of questions and calculate a numeric value based on the answers](#)  
 Page: [Increment a field or set to 1 if it's not set](#)  
 Page: [Set "Date-Time Picker" custom field with current date-time](#)  
 Page: [Set "Due date" 6 natural days \(or work days\) earlier than a "Date Picker" custom field](#)  
 Page: [Set "Due date" to a specific day of next week no matter of date of creation this week](#)  
 Page: [Set "Due date" with certain time offset from current date](#)  
 Page: [Set "Total time spent" to "Current date and time - date and time of last update"](#)  
 Page: [Set a custom field "Urgency" depending on a combined value of issue's priority and "Impact" custom field](#)  
 Page: [Sum "Time Spent" in all sub-tasks of issues linked with issue link types "LinkA", "LinkB", "LinkC"](#)  
 Page: [Triage Jira Service Desk email requests \(Move issues\)](#)  
 Page: [Using project properties to calculate custom sequence numbers](#)

## Related Usage Examples

- [Validation on the value of a Cascading Select field](#)
  - [example](#)
  - [validator](#)
  - [custom-field](#)
- [Make different fields mandatory depending on the value of a Select List custom field](#)
  - [example](#)
  - [validator](#)
  - [custom-field](#)
- [Validate compatible values selection among dependent custom fields](#)
  - [example](#)
  - [validator](#)
  - [custom-field](#)
- [Make a custom field mandatory when priority is "Critical" or "Blocker" and issue type is "Incident"](#)
  - [example](#)
  - [validator](#)
  - [custom-field](#)
- [Validate a custom field "Story Points" has been given a value in Fibonacci sequence](#)
  - [example](#)
  - [validator](#)
  - [custom-field](#)
- [Validate that multi-user picker custom field A does not contain any user in multi-user picker custom field B](#)
  - [example](#)

- validator
  - custom-field
- Make attachment mandatory depending on the value of certain custom field
  - example
  - validator
  - custom-field
- Enforce a field (Select List) to be set when another field (Radio Button) has a certain value (works with any kind of field type)
  - example
  - validator
  - custom-field
- Create a dynamic set of sub-tasks based on checkbox selection with unique summaries
  - example
  - post-function
  - custom-field
  - sub-task
- Total of all story points in an epic
  - example
  - custom-field
  - calculated-field
- Show timeliness of an issue based on two date pickers
  - example
  - custom-field
  - calculated-field
- Add and remove a single or a set of items from multi valued fields
  - example
  - post-function
  - custom-field
  - issue-links
  - sub-task
- Highest value of a custom field among linked issues
  - example
  - custom-field
  - calculated-field
- Google Maps location from address
  - example
  - calculated-field
  - custom-field
- Make certain custom field required in resolve screen only if the resolution was set to "Fixed"
  - example
  - validator
  - custom-field