

# Set "Due date" to a specific day of next week no matter of date of creation this week

## On this page

- [Features used to implement the example](#)
- [Example: Set "Due date" to a specific day of next week no matter of date of creation this week](#)
- [Alternative implementation](#)
- [Other examples of that functions](#)
- [Related Usage Examples](#)

## Features used to implement the example

- [Set a field as a function of other fields](#)
- [Mathematical and date-time expression calculator](#)

## Example: Set "Due date" to a specific day of next week no matter of date of creation this week

We have a special issue type in Jira, which is like a small in sprint. The execution deadline is always the end of next week (next Friday actually), counting from the raise of the issue. And we would like to store the deadline in the issue, that should be calculated by the plugin.

So I can open an issue on Monday, another one on next day, etc. Both have deadline next Friday - actually every issue has the same due date that are opened in the same week. In the first case there are 10 days for the execution, in second one there are only 9 days. That's what makes it difficult, because create date is flexible within a week, due date however should be fixed - that's the reason why I can not define x day shift between the create date and due date.

You should use configuration for **behavior 1** adding 7 days to it, i.e., using the following time formula:

```
datePart({00057}, LOCAL) + (dayOfTheWeek({00057}, LOCAL) = 7 ? 7 + 6 : 7 + 6 - dayOfTheWeek({00057}, LOCAL)) * {DAY}
```

or for improved efficiency

```
datePart({00057}, LOCAL) + (dayOfTheWeek({00057}, LOCAL) = 7 ? 13 : 13 - dayOfTheWeek({00057}, LOCAL)) * {DAY}
```

You should add that post-function to **"Create Issue"** transition of your special sprint issue type's workflow. Take care to insert your post-function after **"Creates the issue originally"** post-function.

In case you are sharing the workflow with other issue types, you should use [Set a field as a function of other fields](#) post-function instead of [Mathematical and date-time expression calculator](#), using the following configuration:

**Field to be checked for matching with type 1 setting rules:**    
This field is only used by rules where conditional part is a regular expression written in brackets: "{regular\_expression}"value

**Target field to be set:**    
Field to be set by first matched setting rule. Type of the field is shown in square brackets.   
Check documentation on [Virtual Fields](#) to get information about suitable values for setting selected target field.

**Setting rules:**   
There are two types of setting rules, and both types can be combined in the same post-function.   
**Rule formats:**   
- type 1:   
"{regular\_expression}"value   
- type 2:   
"{boolean\_expression}"value   
Write only one rule per line.   
  
value may be a parsed text or a mathematical or time formula, depending on the type of selected Target field.   
[Regular expression syntax](#)

1 (name\_of\_special\_sprint\_issue\_type)datePart({00057}, LOCAL) + | (dayOfTheWeek({00057}, LOCAL) = 7 ? 13 : 13 - dayOfTheWeek({00057}, LOCAL)) \* {DAY}

Evaluate all the setting rules, not stopping at first match. Only available for multi-valued and ephemeral target fields.

You should replace **name\_of\_special\_sprint\_issue\_type** with the actual name of your special sprint issue type.

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

**Transition: Create Issue**

[Edit](#)
[View 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. The field **Due date** will be set according to the evaluation of **Issue type** against the following set of rules:   

```
(name_of_special_sprint_issue_type)datePart({Current date and time}, LOCAL) +
(dayOfTheWeek({Current date and time}, LOCAL) = 7 ? 13 : 13 - dayOfTheWeek({Current date and time}, LOCAL)) * {DAY}
```
3. Fire a **Issue Created** event that can be processed by the listeners.

## Alternative implementation

Let's suppose that we want to set "Due date" to next Friday and if today's Friday to next Friday exactly 7 days later. This is not a so easy time calculus as it seems to be. I will explain you to how to do it using [Mathematical and date-time expression calculator](#) post-function.

There are two possible desired behaviors:

If today is Friday, we want to set "Due date" to current date (today). In this case we would use the following configuration:

**Target field:**

**Formula:** [Syntax Specification](#)

```
1 datePart({00057}, LOCAL) + (dayOfTheWeek({00057}, LOCAL) = 7 ? 6 : 6 - dayOfTheWeek({00057}, LOCAL)) * {DAY}
```

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

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.

The time formula used is:

```
datePart({00057}, LOCAL) + (dayOfTheWeek({00057}, LOCAL) = 7 ? 6 : 6 - dayOfTheWeek({00057}, LOCAL)) * {DAY}
```

## Alternative expression

If today is Friday, we want to set "Due date" to next Friday, i.e., exactly 7 days later. In this case we would use the following time formula:

**Target field:**

**Formula:** [Syntax Specification](#)

```
1 datePart({00057}, LOCAL) + (dayOfTheWeek({00057}, LOCAL) = 6 ? 7 : (dayOfTheWeek({00057}, LOCAL) = 7 ? 6 : 6 - dayOfTheWeek({00057}, LOCAL))) * {DAY}
```

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

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.

The time formula used is:

```
datePart({00057}, LOCAL) + (dayOfTheWeek({00057}, LOCAL) = 6 ? 7 : (dayOfTheWeek({00057}, LOCAL) = 7 ? 6 : 6 - dayOfTheWeek({00057}, LOCAL))) * {DAY}
```

## Other examples of that functions

### Set a field as a function of other fields

Page: [Add watcher depending on security level](#)  
Page: [Add watchers based on issue type](#)  
Page: [Add watchers depending on the value of a custom field](#)  
Page: [Assign issue based on the value of a Cascading Select custom field](#)  
Page: [Assign issue to a specific user based on a specific custom field value](#)  
Page: [Assign issue to current user if assignee is empty](#)  
Page: [Assign issue to current user if the user is not member of a certain project role](#)  
Page: [Change assignee based on a custom field](#)  
Page: [Change parent's status depending on sub-task's summary](#)  
Page: [Changing issue priority depending on issue description](#)  
Page: [Compose dynamic text by inserting field values in a text template](#)  
Page: [Copy "Due date" into a date type custom field in a linked issue if it's greater than current issue's "Due date"](#)  
Page: [Limit the number of hours a user can log per day](#)  
Page: [Make parent issue progress through its workflow](#)  
Page: [Rise priority if due date is less than 3 weeks away](#)  
Page: [Set "Due date" depending on the value of other fields, in case it's uninitialized](#)  
Page: [Set "Due date" to a specific day of next week no matter of date of creation this week](#)  
Page: [Set "Due date" to current date at issue creation if not initialized](#)  
Page: [Set a custom field "Urgency" depending on a combined value of issue's priority and "Impact" custom field](#)  
Page: [Set a date based on current date](#)  
Page: [Set a field based on reporter's email](#)  
Page: [Set a watcher at ticket creation depending on custom field's value](#)  
Page: [Set assignee depending on issue type](#)  
Page: [Set security level based on groups and project roles the reporter or creator are in](#)  
Page: [Set security level depending on reporter or creator](#)  
Page: [Set the assignee based on a condition](#)  
Page: [Set the value of a field of type "User Picker" depending on other field's value](#)  
Page: [Set watchers depending on the value of a custom field](#)  
Page: [Setting a custom field \(User Picker\) based on the value of another custom field \(Text Field\)](#)  
Page: [Setting a field's default value depending on another field](#)  
Page: [Setting the priority depending on the multiplication of custom fields](#)  
Page: [Transition an issue automatically depending on the value of a field](#)  
Page: [Unassign an issue when assigned to project leader](#)  
Page: [Update checkboxes custom field if a file has been attached during a transition](#)  
Page: [Using project properties to calculate custom sequence numbers](#)

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### Mathematical and date-time expression calculator

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

- [Creating a Jira Service Desk internal comment](#)
  - [example](#)
  - [post-function](#)
- [Limit the number of hours a user can log per day](#)
  - [example](#)
  - [validator](#)
  - [post-function](#)
  - [work-log](#)
- [Using project properties to calculate custom sequence numbers](#)
  - [example](#)
  - [post-function](#)
  - [calculated-field](#)
  - [project-properties](#)
- [Set a date based on current date](#)
  - [example](#)
  - [post-function](#)
- [Setting the priority depending on the multiplication of custom fields](#)
  - [example](#)
  - [calculated-field](#)
  - [post-function](#)
- [Parse Email addresses to watchers list](#)
  - [example](#)
  - [post-function](#)
- [Set the assignee based on a condition](#)
  - [example](#)
  - [post-function](#)
- [Create a dynamic set of sub-tasks based on checkbox selection with unique summaries](#)
  - [example](#)
  - [post-function](#)
  - [custom-field](#)
  - [sub-task](#)
- [Create a static set of sub-tasks with unique summaries](#)
  - [example](#)
  - [post-function](#)
- [Triage Jira Service Desk email requests \(Move issues\)](#)
  - [example](#)
  - [post-function](#)
  - [move](#)
  - [transition-issue](#)
- [Moving story to "In Progress" when one of its sub-tasks is moved to "In Progress" \(Transition issues\)](#)
  - [example](#)
  - [post-function](#)
  - [transition](#)
- [Transition sub-tasks when parent is transitioned](#)
  - [example](#)
  - [post-function](#)
  - [sub-task](#)
  - [transition](#)
  - [outdated](#)
- [Transition only a sub-task among several ones](#)
  - [example](#)
  - [post-function](#)
  - [sub-task](#)
  - [transition](#)
  - [outdated](#)
- [Moving sub-tasks to "Open" status when parent issue moves to "In Progress"](#)
  - [example](#)
  - [post-function](#)
  - [sub-task](#)
  - [transition](#)
  - [outdated](#)
- [Moving story to "Ready for QA" once all its sub-tasks are in "Ready for QA" status](#)
  - [example](#)
  - [post-function](#)
  - [sub-task](#)
  - [transition](#)
  - [outdated](#)

