

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

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Features used to implement the example

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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:	<div>Issue type - [Text]</div> <div>This field is only used by rules where conditional part is a regular expression written in brackets: "{regular_expression}"value</div>
Target field to be set:	<div>Due date - [Date]</div> <div>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.</div>
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	<div>1 (name_of_special_sprint_issue_type)datePart({00057}, LOCAL) + (dayOfTheWeek({00057}, LOCAL) = 7 ? 13 : 13 - dayOfTheWeek({00057}, LOCAL)) * {DAY}</div> <div><input type="checkbox"/> Evaluate all the setting rules, not stopping at first match. Only available for multi-valued and ephemeral target fields.</div>

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

EditView 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 occurs

Add post function

- Creates the issue originally.
- 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}
- 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:

Due date - [Date]

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}.

Current date and time - [Date and time] - {00057}

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.

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:

Due date - [Date]

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}.

Current date and time - [Date and time] - {00057}

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.

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

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Mathematical and date-time expression calculator

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