

Block a transition until all sub-tasks have certain fields populated

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Features used to implement the example

- [Boolean validator with math, date-time or text-string terms](#)

Example: Block a transition until all subtasks have certain fields populated

I have a parent issue (**issue type A**) and this issue could have sub-tasks (**issue type B**). The sub-tasks have two custom fields (one custom field is a user picker custom field, "**user**", and the other custom field is a date picker custom field, "**date**").

I want to allow certain workflow transition in "**issue A**" only if all their sub-tasks have a value on custom fields "**user**" and "**date**". Basically, I want to know if sub-tasks' custom fields are not empty as a condition of issue workflow transition for "**issue A**".

Using [Jira Workflow Toolbox](#) a **condition** or a **validation** can be implemented, so that you can prevent a transition from being executed while there are sub-tasks that do not have certain fields populated. Let us see an example:

To implement this example we are going to use [Boolean validator with math, date-time or text-string terms](#) with the following configuration:

Boolean expression to be evaluated:Syntax Specification

count(filterByFieldValue(filterByFieldValue(subtasks(), %(00070), !=, ""), %(00012), !=, "")) = count(subtasks())

Logical connectives: **or**, **and** and **not**. Alternatively you can also use **|**, **&** and **!**.

Comparison operators: **=**, **!=**, **>**, **>=**, **<** and **<=**. Operators **~**, **!~**, **in**, **not in**, **any in** and **none in** can be used with **strings**, **multi-valued fields** and **lists**.

Logical literals: **true** and **false**. Literal **null** is used with "**=**" and "**!=**" to check whether a field is initialized, e.g. **{00012} != null** checks whether **Due Date** is initialized.

NUMERICAL AND DATE-TIME TERMS

Numeric and Date-Time field values: insert field codes with format **{nnnnn}**.

Original estimate (minutes) – [Number] – {00068}

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.

TEXT-STRING TERMS

Text-String field values: insert field codes with format **%(nnnnn)** or **%(nnnnn.i)** for referencing levels in cascading select fields (*i* = 0 for base level).

Summary – [Text] – %(00000)

Insert String Value

String literals: written in **double quotes**, e.g., *"This is a string literal."*

String concatenation: use operator **+** to concatenate string values, e.g., *"The summary of issue with key " + %(00015) + " is \"" + %(00000) + "\"."*

Escape character: character **** is used with characters **"**, ****, **n**, **r**, **t**, **f** and **b** to invoke an alternative interpretation.

There is a set of [string functions](#) available to be used in your expression.

Message to show when validation fails:

All subtasks must have fields "Environment" and "Due date" populated.

Boolean expression used is:

```
count(filterByFieldValue(filterByFieldValue(subtasks(), %{00070}, !=, ""), %{00012}, !=, "")) = count
(subtasks())
```

Note that:

- `%{00070}` is code for string value of "Environment"
- `%{00012}` is code for string value of "Due date"

This example, can be extended to any number of fields and custom fields, and can also be restricted to certain types of subtasks using function `filterByIssueType`.

Other examples of that function

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