

# Require at least one sub-task in status "Resolved" or "Closed" when "Testing required" is selected in Check-Box custom field

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## Features used to implement the example

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

## Example: Require at least one subtask of type "QA Sub-task" in status "Resolved" or "Closed" whenever option "Testing required" is selected in Check-Box custom field

Let us suppose we have a Check Box type custom field called **Issue Options**, and that one of its options is "**Testing required**". We want to add a validator that will force the existence of at least one subtask of type "**QA Subtask**" in status "**Resolved**" or "**Closed**" whenever option "**Testing required**" is checked. To implement that example we have to use validator [Boolean validator with math, date-time or text-string terms](#) with the following configuration:

Boolean expression to be evaluated:
[ Line 1 / Col 138 ]
Syntax Specification and Examples

```

1 !matches(%{13500}, ".*Testing required.*") OR count(filterByStatus(filterByIssueType(subtasks(), "QA Subtask"), "Resolved, Closed")) > 0

```

Logical connectives: and, or 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.

**CHECK SYNTAX**

**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.

**Skip validation when:**  
Inhibit the validator under selected circumstances.

☐ Transition is triggered by a **bulk operation**.  
☐ Transition is triggered by a **JIRA Workflow Toolbox post-function**.  
☐ Current issue is being created by cloning. Only makes sense in *Create Issue* transition.

**Message to show when validation fails:**

If field "Issue Options" has checked optoin "Testing required" then there must be at least 1 "Testing subtask"

Field code injector:  
Summary - [Text] - %{00000}

Field codes with format %{nnnnn} can be inserted in the failure message and its translations, and they will be replaced with actual field values at runtime.

[Set translations for installed languages](#)

The expression used: `!matches(%{13500}, ".*Testing required.*") OR count(filterByStatus(filterByIssueType(subtasks(), "QA Subtask"), "Resolved, Closed")) > 0`

Note that:

- code of field **"Issue Options"** is `%{13500}`

Function **matches** must be used to evaluate the value of **Issue Options** since that field may have more than one option selected, and the returned value is a comma separated list with selected options. We use regular expression `".*Testing required.*"`, since that regular expression matches any combination where the option **"Testing required"** is selected.

Other examples of that function

Related Usage Examples

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

Page: Block an epic's transition depending on linked issues status and due date

Page: Block or hide a transition for an issue depending on its issue links

Page: Block or unblock a transition after an issue rested a specific time in a status

Page: Block transition until all sub-tasks are in a specific status category

Page: Close parent issue when all sub-tasks are closed

Page: Enforce a field (Select List) to be set when another field (Radio Button) has a certain value (works with any kind of field type)

Page: Ensure that all issues linked with a certain issue link type have "Due Date" field set

Page: If field A is populated then, field B must also be populated

Page: Limit issue creation per role and issue type

Page: Limit the number of hours a user can log per day

Page: Limit valid dates for work logs

Page: Make "Time Spent" field required when there is no time logged in the issue

Page: Make a custom field mandatory when priority is "Critical" or "Blocker" and issue type is "Incident"

Page: Make attachment mandatory depending on the value of certain custom field

Page: Make different fields mandatory depending on the value of a Select List custom field

Page: Make linked issues, sub-tasks and JQL selected issues progress through its workflows

Page: Make parent issue progress through its workflow

Page: Prevent issue creation if another issue with same field value already exists

Page: Reject duplicated file names in attachments

Page: Require at least one sub-task in status "Resolved" or "Closed" when "Testing required" is selected in Check-Box custom field

Page: Require issue link when resolving as duplicate

Page: Restrict parent issue from closing if it has sub-tasks that were created during a given parent issue status

Page: Restrict sub-task type creation depending on parent issue status

Page: Restrict sub-task type creation depending on parent issue type

Page: Set a condition in a global transition which only applies in a certain status

Page: Validate a custom field "Story Points" has been given a value in Fibonacci sequence

Page: Validate compatible values selection among dependent custom fields

Page: Validate only issue links created in transition screen

Page: Validate that multi-user picker custom field A does not contain any user in multi-user picker custom field B

Page: Validation and condition based on time expressions

Page: Validation based on the value of a date type project property

Page: Validation on issue attachments

Page: Validation on MIME types of issue attachments

Page: Validation on sibling sub-tasks depending on issue type and status

Page: Validation on the value of a Cascading Select field

- Validation on sibling sub-tasks depending on issue type and status
  - example
  - validator
  - sub-task
  - transition
- Restrict sub-task type creation depending on parent issue status
  - example
  - validator
  - sub-task
- Restrict sub-task type creation depending on parent issue type
  - example
  - validator
  - sub-task
- Block a transition until all sub-tasks have certain fields populated
  - example
  - condition
  - validator
  - sub-task
  - transition
- Require at least one sub-task in status "Resolved" or "Closed" when "Testing required" is selected in Check-Box custom field
  - example
  - validator
  - sub-task
- Create a dynamic set of sub-tasks based on checkbox selection with unique summaries
  - example
  - post-function
  - custom-field
  - sub-task
- 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
- Add and remove a single or a set of items from multi valued fields
  - example
  - post-function
  - custom-field
  - issue-links
  - sub-task
- Automatically close resolved sub-tasks when parent issue is closed
  - example
  - post-function
  - sub-task
  - transition
  - outdated
- Change parent's status depending on sub-task's summary
  - example
  - post-function
  - sub-task
  - transition
  - outdated

- Moving story to "In Progress" when one of its sub-tasks is moved to "In Progress"
  - example
  - post-function
  - sub-task
  - transition
  - outdated
- Close parent issue when all sub-tasks are closed
  - example
  - condition
  - validator
  - post-function
  - sub-task
  - transition