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

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Features used to implement the example

- **Boolean validator with math, date-time or text-string terms**

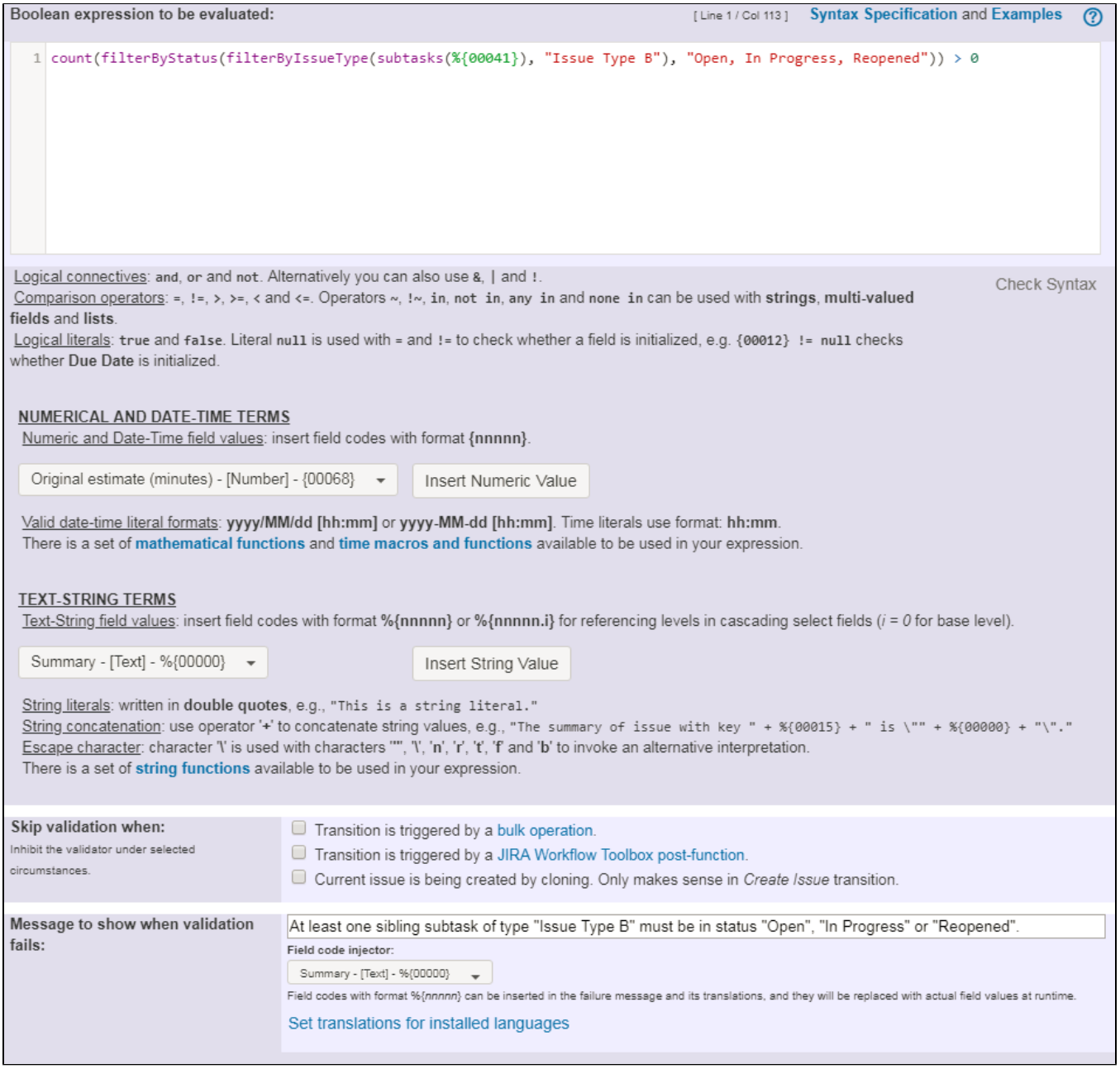
Example: Validation on sibling sub-tasks depending on issue type and status

I have one Issue with two sub-tasks, say **sub-task A (of issue type A)** and **sub-task B (of issue type B)**.

I would like to add a validation on a transition of **sub-task A** that allows that transition to be executed only if the the value of the **Status Field** of **sub-task B** is for example **"Open" OR "In Progress" OR "Reopened"**. For any other value of the **sub-task B's Status Field**, the transition of **sub-task A** will be forbidden.

That validation can be implemented with **Jira Workflow Toolbox** **2.1.20** or higher, using **Boolean validator with math, date-time or text-string terms**. I will show how to implement two variants of the validation. You can choose the one that better fits your use case:

I suppose that parent issue has at least one sub-task of type "**issue type B**", and we want to validate that at least one of them is in the status "**Open**", "**In Progress**" or "**Reopened**". To implement that validation we use the validator with the following configuration:

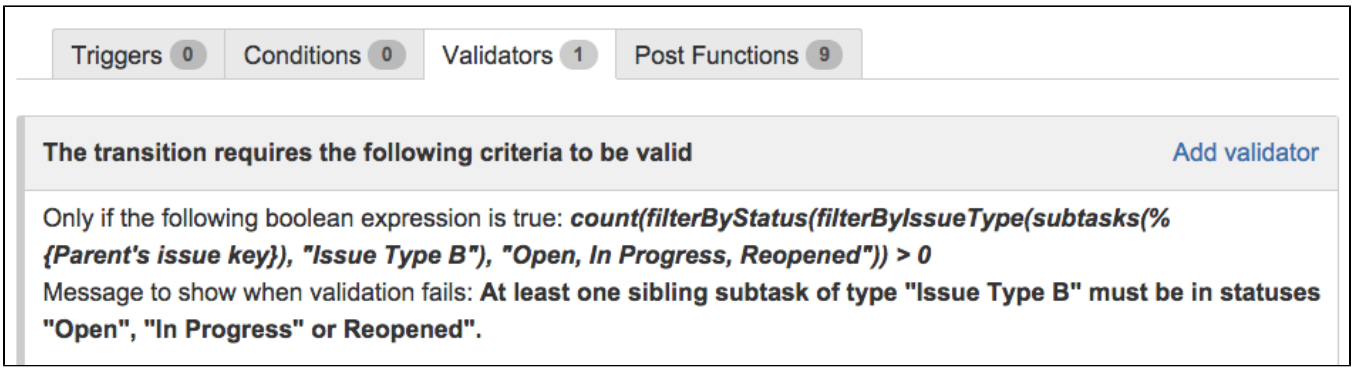


Boolean expression used is: **`count(filterByStatus(filterByIssueType(subtasks(%{00041}), "Issue Type B"), "Open, In Progress, Reopened")) > 0`**

Note that:

- **%{00041}** is code for virtual field "**Parent's issue key**"
- "**Issue type B**" is the name of a issue type

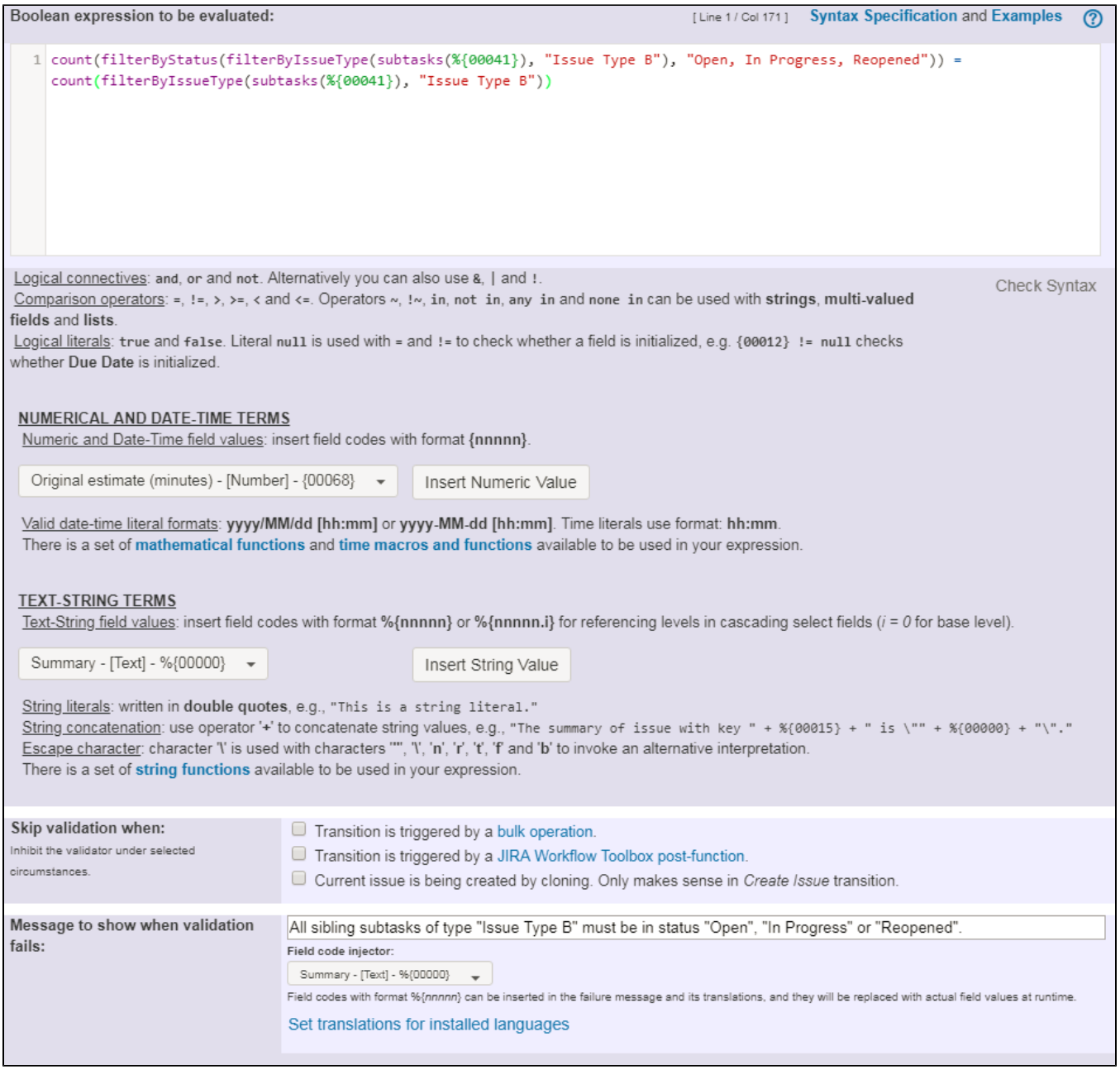
Once configured, the transition will look like this:



Other variation of the usage example

I suppose that parent issue may have or may not have sub-tasks of type "**Issue type B**". We want to validate that every sub-task of type "**Issue type B** " is in the status "**Open**", "**In Progress**" or "**Reopened**".

To implement that validation we use **Boolean validator with math, date-time or text-string terms** with the following configuration:

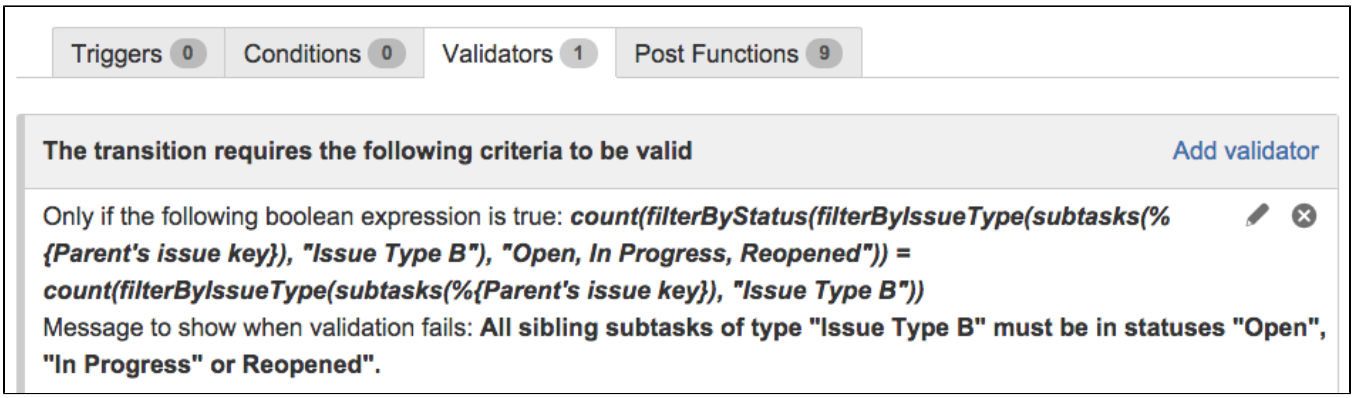


Boolean expression used is: **`count(filterByStatus(filterByIssueType(subtasks(%{00041}), "Issue Type B"), "Open, In Progress, Reopened")) = count(filterByIssueType(subtasks(%{00041}), "Issue Type B"))`**

Note that:

- **%{00041}** is code for virtual field "**Parent's issue key**"
- "**Issue type B**" is the name of a issue type

Once configured, the transition will look like this:



Other examples of that function

Page: Block a transition until all sub-tasks have certains 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

Related Usage Examples

- Validation on sibling sub-tasks depending on issue type and status
  - example
  - validator
  - sub-task
  - transition
- Block a transition until all sub-tasks have certains fields populated
  - example
  - condition
  - validator
  - sub-task
  - 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
- Moving story to "In Progress" when one of its sub-tasks is moved to "In Progress"
  - example
  - post-function
  - sub-task
  - transition
  - outdated
- 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
- Close parent issue when all sub-tasks are closed
    - example
    - condition
    - validator
    - post-function
    - sub-task
    - transition
- Proceed with a task only when all sub-tasks are completed
    - example
    - condition
    - validator
    - sub-task
    - transition
- Prevent transitioning when there is a blocking issue
    - example
    - validator
    - issue-links
    - sub-task
    - transition
- Transition parent issue only when certain issue sub-task types are done
    - example
    - validator
    - sub-task
    - transition
- Enforce certain type of sub-tasks to be "Resolved" to allow executing a transition
    - example
    - validator
    - sub-task
    - transition
- Restrict parent issue from closing if it has sub-tasks that were created during a given parent issue status
    - example
    - validator
    - post-function
    - sub-task
    - transition