Make parent issue progress through its workflow

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Features used to implement the example

- **Copy parsed text to a field**

A sub-task can execute a post-function in order to move its parent issue through the workflow. For example, we can **close a parent issue when all sub-tasks are closed**.

How to make parent issue progress through its workflow?

A sub-task can make its parent issue transition using 2 different sets of virtual fields:

- "**Parent's issue status**" and "**Parent's issue status (delayed writing)**": if we write the **name of a status** (e.g., **Open, In Progress, Closed, ...**) into any of these 2 virtual fields, the plugin will look for transitions in parent's workflow going from parent's current status to a status with the same name as the one we have written. If a suitable transition is found and its conditions and validations are satisfied, the transition will be executed, and parent issue will be moved to entered status.

- "**Execute transition on parent issue**" and "**Execute transition on parent issue (delayed execution)**": if we write the **name of a transition** (e.g., **Start Progress, Close Issue, ...**) into any of these 2 virtual fields, the plugin will look for a transition in parent's workflow departing from parent's current status with the entered name. If that transition exists and its conditions and validations are satisfied, the transition will be executed.

In order to transition parent issue, a sub-task typically uses post-function **Copy parsed text to a field** with the following configuration:

- Target field: any of the 4 virtual fields above described.
- Parsing mode: **basic**
- Text to be parsed...: the **name of a status** or the **name of a transition**, depending of the selected target field.

Also **Set a field as a function of other fields** can be used.

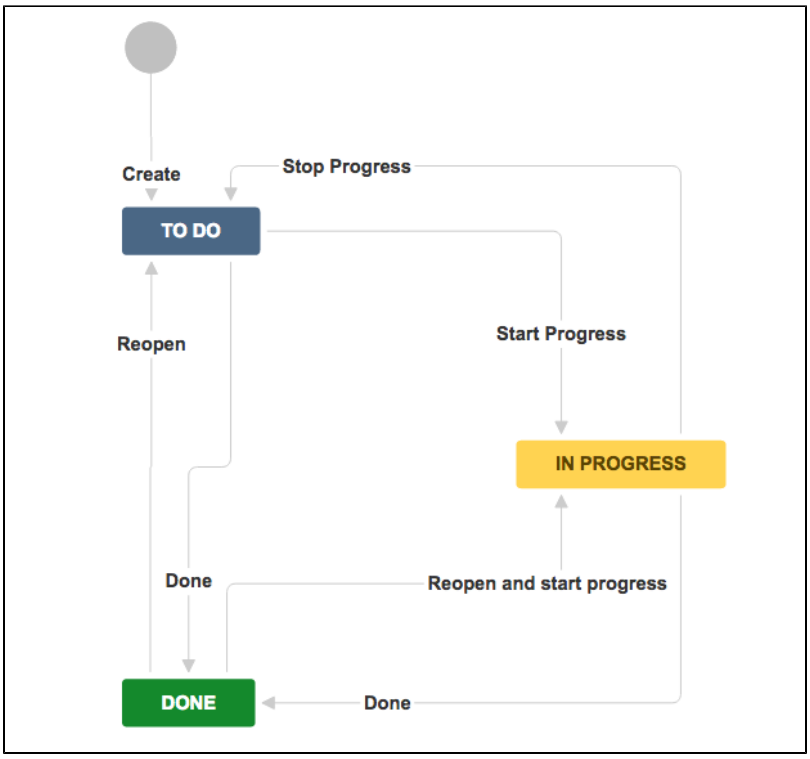
Difference between "Parent's issue status" and "Parent's issue status (delayed writing)" or "Execute transition on parent issue" and "Execute transition on parent issue (delayed execution)"

Virtual fields "**Parent's issue status**" and "**Execute transition on parent issue**" try to transition parent issue **as soon as they are written**, while fields "**Execute transition on parent issue (delayed execution)**" and "**Execute transition on parent issue (delayed execution)**" **wait for sub-task's current transition to end execution**, before transitioning parent issue.

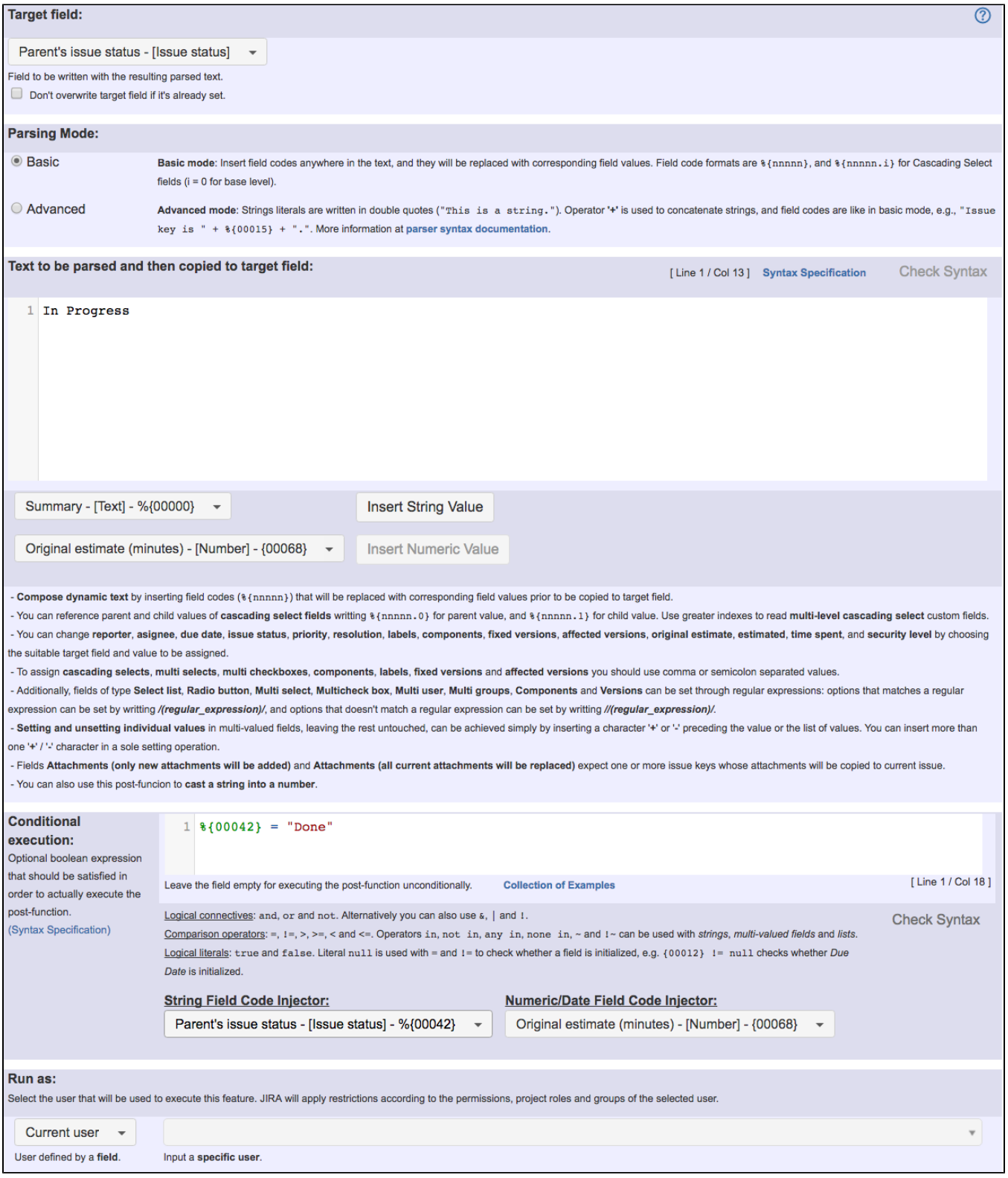
When a sub-task uses "**Execute transition on parent issue (delayed execution)**" or "**Execute transition on parent issue (delayed execution)**" fields for transitioning its parent issue, parent's execution attempt won't be carried out until current sub-task's transition has finished, and thus sub-task is in the new status. For this reason, these fields are used when parent issue is **blocked by a condition or validator depending on sub-tasks statuses**, typically by a conditions or validators like "Sub-Task Blocking Condition", **Condition and validation on sub-tasks** and **Boolean condition and validator with math. date-time or text-string terms**, etc.

Example: Reopen parent issue when a sub-task is reopened

In this example we show how to automatically reopen an issue in status "**Done**" when any of its sub-tasks is reopened. Let's assume the following workflow:



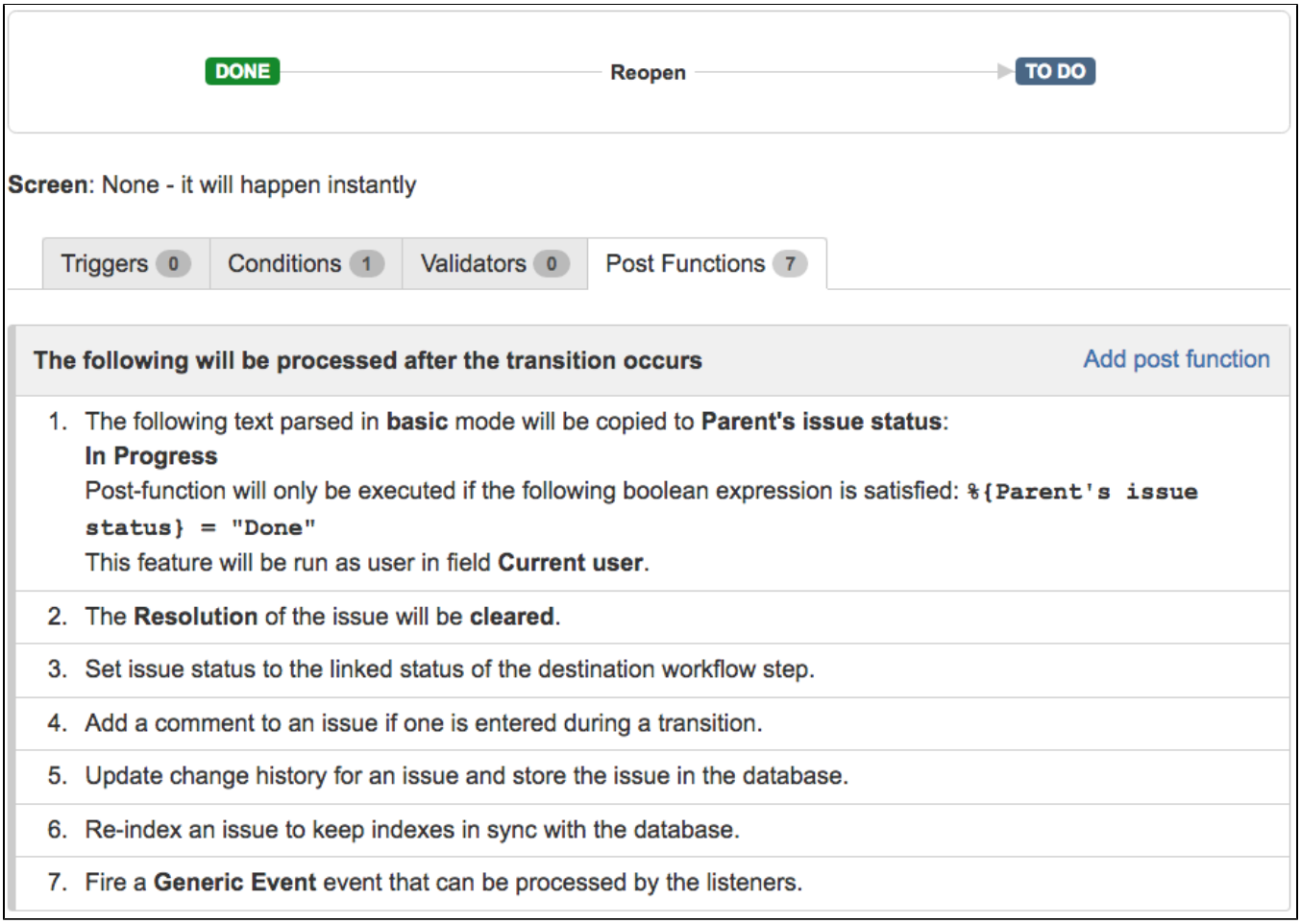
We will insert post-function **Copy parsed text to a field** into transitions "**Reopen**" and "**Reopen and start progress**" with the following configuration:



Note that:

- **%{00042}** is field code for **Parent's issue status**
- We haven't written the name of the statuses in upper case, but like **In Progress** and **Done**, because Jira UI typically shows the name of statuses in upper case, while the actual names are not. You can check up the actual names at Jira Administration screens

Once configured, transitions "**Reopen**" and "**Reopen and start progress**" will look like this:



Other examples of that function

Page: Add all assignees of certain sub-task types to a "Multi-User Picker" custom field
Page: Add and remove a single or a set of items from multi valued fields
Page: Add current user to comment
Page: Add or remove request participants
Page: Add watchers from a part of the issue summary: "Summary_text - watcher1, watcher2, watcher3, ..."
Page: Assign issue based on the value of a Cascading Select custom field
Page: Assign issue to last user who executed a certain transition in the workflow
Page: Automatically close resolved sub-tasks when parent issue is closed
Page: Automatically reopen parent issue when one of its sub-tasks is reopened
Page: Calculate the time elapsed between 2 transition executions
Page: Close parent issue when all sub-tasks are closed
Page: Combine the values of several Multi-User picker fields
Page: Compose a parsed text including the "full name" or a user selected in a User Picker custom field
Page: Compose dynamic text by inserting field values in a text template
Page: Copy issue labels to a custom field
Page: Copy the value of a user property into a user picker
Page: Create a comment in sub-tasks when parent transitions
Page: Execute transition in epic
Page: Getting the number of selected values in a custom field of type Multi Select
Page: Limit the number of hours a user can log per day

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

Page: Make a sub-task's status match parent issue's current status on creation
Page: Make parent issue progress through its workflow
Page: Moving story to "In Progress" when one of its sub-tasks is moved to "In Progress"
Page: Moving story to "Ready for QA" once all its sub-tasks are in "Ready for QA" status
Page: Parse Email adresses to watchers list
Page: Parsing text from last comment and appending it to issue's summary
Page: Remove versions selected in a version picker custom field
Page: Replace certain issue link types with different ones
Page: Restrict parent issue from closing if it has sub-tasks that were created during a given parent issue status
Page: Set a Select or Multi-Select field using regular expression to express the values to be assigned
Page: Set assignee depending on issue type
Page: Set field depending on time passed since issue creation
Page: Set priority for issues that have been in a certain status for longer than 24 hours
Page: Set security level based on groups and project roles the reporter or creator are in
Page: Transition linked issues in currently active sprint
Page: Transition only a sub-task among several ones
Page: Transition parent issue only when certain issue sub-task types are done
Page: Update Cascading Select custom field with a value of the field in parent issue
Page: Update checkboxes custom field if a file has been attached during a transition
Page: Validation on issue attachments
Page: Validation on MIME types of issue attachments
Page: Writing a comment to blocked issues when blocking issues are resolved

        - 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
- 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
- Automatically close resolved sub-tasks when parent issue is closed
    - 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