

Transition parent issue only when certain issue sub-task types are done

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Features used to implement the example

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Example: Transition parent issue only when certain issue sub-task types are done

User Stories have a user story workflow. The Engineering Sub-Task type has an engineering sub-task workflow. The QA Sub-Task type has a qa sub-task workflow.

I have the following compound criteria to meet:

1. When at least one Engineering Sub-Task or QA Sub-Task type is set to **"In Progress"**, auto transition the **parent User Story** to **Step 2**.
2. Only when all Engineering Sub-Task types are **"Done"**, auto transition the **parent User Story** to **Step 3**. This happens regardless of the status of the QA Sub-Tasks.
3. Only if all Engineering Sub-Task types and QA Sub-Task types are **"Done"**, allow transition of the User Story from **Step 3 to Step 4**.

I've seen a few workflow plugins that allow transition of the parent if **"all"** sub-task types are set to a particular status or resolution. That would violate #2, however. Are there any plugins that allow you to segregate sub-task types for different transition thresholds? I've been searching and thus far I haven't found any.

From a logic perspective it could work like this:

- Post Function on the Engineering Sub-Task workflow for the **"Done"** transition:
 - If all sibling Engineering Sub-Task types are **"Done"**, auto-transition the parent issue from Step 2 to Step 3 (#2 in the compound criteria I listed above)
 - If all sibling Engineering Sub-Task types are **"Done"** and QA Sub-Task types are **"Done"**, allow transition from Step 3 to Step 4.

Note: There is no allowed transition of the story from Step 2 to Step 4. That is handled at the User Story level.

Your requirements can be implemented in [Jira Workflow Toolbox](#) using two features of this plugin:

- [Validation on sub-tasks](#): to be inserted in **"From Step 2 to Step 3"** and **"From Step 3 to Step 4"** transitions of Story Workflow, in order to prevent transition executions if criteria 2 and 3 are not met. This validators work always, i.e. in human triggered transitions or post-function triggered transitions.
- [Copy parsed text to a field](#) to write on virtual fields **"Parent's issue status"** and **"Parent's issue status (delayed writing)"**: when you write the name of a status into these virtual fields (provided by the plugin) you are transitioning parent's issue to that status, provided there is a transition in parent's workflow from current status to desired status, and all conditions and validators of that transition are met. The difference between them is that **"Parent's issue status (delayed writing)"** waits for sub-task transition to be executed, so that it is in the new status before parent transition is attempt. This way validator [Validation on sub-tasks](#) won't block parent transitioning if triggering sub-task was the lasting **Engineering Sub-Task** to be moved to **"Done"** status.

Now I explain in detail how to do it. I'm considering that **"Done"** is a status in sub-tasks workflows, but if it were a Resolution value it wouldn't be a problem.

Post-function [Copy parsed text to a field](#) in transition **"Start Progress"** in **"Engineering Sub-Task"** and **"QA Sub-Task"** workflows

This post-function will auto-transition parent issue to **"Step 2"** when any of the sub-tasks are moved to status **"In Progress"**. Use the configuration shown in the screenshot. Notice that **"Status of Step 2"** must be replaced with the name of the status associated with Step 2:

Target field:

Parent's issue status

Text to be parsed and then copied to target field:

Status of Step 2

Post-function [Copy parsed text to a field](#) in transition to status "Done" in "Engineering Sub-Task" workflow

This post-function will auto-transition parent issue to "**Step 3**" when the last **Engineering Sub-task** is moved to status "**Done**". This post-function work as a team with validator [Validation on sub-tasks](#) in transition "**From Step 2 to Step 3**" in Story workflow. Use the configuration shown in the screenshot. Notice that "**Status of Step 3**" must be replaced with the name of the status associated with Step 3:

Target field:







Parent's issue status (delayed writing)

Text to be parsed and then copied to target field:

Status of Step 3




Validator [Validation on sub-tasks](#) in transition "From Step 2 to Step 3" in Story workflow

This validator will prevent execution of transition from Step 2 to Step 3 unless every **Engineering Sub-task** is in status "**Done**":

Allowed subtask types:	<input checked="" type="checkbox"/>  Engineering Subtask <input type="checkbox"/>  QA Subtask <input type="checkbox"/>  Sub-task <input type="checkbox"/>  gh.issue.task
	<p>Selected issue types will be allowed. Nevertheless, if you didn't select any issue type, and checked "Allow unselected issue types", there won't be applied any filter by issue type, i.e., every issue type will be allowed.</p>
Allowed statuses:	<input type="checkbox"/>  Open <input type="checkbox"/>  In Progress <input type="checkbox"/>  Reopened <input type="checkbox"/>  Resolved <input type="checkbox"/>  Closed <input type="checkbox"/>  Assigned <input checked="" type="checkbox"/>  Done
	<p>Subtasks in selected statuses will be allowed. Nevertheless, if you didn't select any issue status, and checked "Allow unselected statuses", there won't be applied any filter by status, i.e., every issue status will be allowed.</p>
Allowed resolutions:	<input type="checkbox"/> UNRESOLVED , i.e. no resolution value <input type="checkbox"/> Fixed <input type="checkbox"/> Won't Fix <input type="checkbox"/> Duplicate <input type="checkbox"/> Incomplete <input type="checkbox"/> Cannot Reproduce
	<p>Subtasks with selected resolutions will be allowed. Nevertheless, if you didn't select any issue resolution, and checked "Allow unselected resolutions", there won't be applied any filter by resolution, i.e., every resolution will be allowed.</p>
Minimum required number of subtasks:	<input type="text" value="0"/> Minimum number of subtasks required fulfilling selected filtering conditions (issue type, status and resolution).
Maximum allowed number of subtasks:	<input type="text" value="1000"/> Maximum number of subtasks allowed fulfilling selected filtering conditions (issue type, status and resolution).
Allow unselected issue types:	<input checked="" type="checkbox"/> Subtasks in unselected issue types will be ignored, i.e., they will be allowed regardless of their status, resolution, or number. Nevertheless, if none of the issue types are selected, checking this option will make the validator behave as if you had selected every issue type.
Allow unselected statuses:	<input type="checkbox"/> Subtasks in unselected statuses will be ignored, i.e., they will be allowed regardless of their resolution, or number. Nevertheless, if none of the statuses are selected, checking this option will make the validator behave as if you had selected every status.
Allow unselected resolutions:	<input checked="" type="checkbox"/> Subtasks in unselected resolutions will be ignored, i.e., they will be allowed regardless of their number. Nevertheless, if none of the resolutions are selected, checking this option will make the validator behave as if you had selected every resolution.
Message to show when validation fails:	<input type="text" value="Every Engineering Subtask must be in 'Done' status to execute this transition."/>
<div> <input type="button" value="Update"/> <input type="button" value="Cancel"/> </div>	

Validator **Validation on sub-tasks** in transition "From Step 3 to Step 4" in Story workflow

This validator will prevent execution of transition from Step 3 to Step 4 unless every **Engineering Sub-task** and **QA Sub-task** is in status "**Done**":

Allowed subtask types:	<input checked="" type="checkbox"/>  Engineering Subtask <input checked="" type="checkbox"/>  QA Subtask <input type="checkbox"/>  Sub-task <input type="checkbox"/>  gh.issue.task
<p>Selected issue types will be allowed. Nevertheless, if you didn't select any issue type, and checked "Allow unselected issue types", there won't be applied any filter by issue type, i.e., every issue type will be allowed.</p>	
Allowed statuses:	<input type="checkbox"/>  Open <input type="checkbox"/>  In Progress <input type="checkbox"/>  Reopened <input type="checkbox"/>  Resolved <input type="checkbox"/>  Closed <input type="checkbox"/>  Assigned <input checked="" type="checkbox"/>  Done
<p>Subtasks in selected statuses will be allowed. Nevertheless, if you didn't select any issue status, and checked "Allow unselected statuses", there won't be applied any filter by status, i.e., every issue status will be allowed.</p>	
Allowed resolutions:	<input type="checkbox"/> UNRESOLVED , i.e. no resolution value <input type="checkbox"/> Fixed <input type="checkbox"/> Won't Fix <input type="checkbox"/> Duplicate <input type="checkbox"/> Incomplete <input type="checkbox"/> Cannot Reproduce
<p>Subtasks with selected resolutions will be allowed. Nevertheless, if you didn't select any issue resolution, and checked "Allow unselected resolutions", there won't be applied any filter by resolution, i.e., every resolution will be allowed.</p>	
Minimum required number of subtasks:	<input type="text" value="0"/> Minimum number of subtasks required fulfilling selected filtering conditions (issue type, status and resolution).
Maximum allowed number of subtasks:	<input type="text" value="1000"/> Maximum number of subtasks allowed fulfilling selected filtering conditions (issue type, status and resolution).
Allow unselected issue types:	<input checked="" type="checkbox"/> Subtasks in unselected issue types will be ignored, i.e., they will be allowed regardless of their status, resolution, or number. Nevertheless, if none of the issue types are selected, checking this option will make the validator behave as if you had selected every issue type.
Allow unselected statuses:	<input type="checkbox"/> Subtasks in unselected statuses will be ignored, i.e., they will be allowed regardless of their resolution, or number. Nevertheless, if none of the statuses are selected, checking this option will make the validator behave as if you had selected every status.
Allow unselected resolutions:	<input checked="" type="checkbox"/> Subtasks in unselected resolutions will be ignored, i.e., they will be allowed regardless of their number. Nevertheless, if none of the resolutions are selected, checking this option will make the validator behave as if you had selected every resolution.
Message to show when validation fails:	<input type="text" value="Every Engineering and QA subtask must be in 'Done' status to execute this transition."/>
<div> <input type="button" value="Update"/> <input type="button" value="Cancel"/> </div>	

Other examples of that functions

Related Usage Examples

Validation on sub-tasks

Page: Close parent issue when all sub-tasks are closed
Page: Enforce certain type of sub-tasks to be "Resolved" to allow executing a transition
Page: Make linked issues, sub-tasks and JQL selected issues progress through its workflows
Page: Make parent issue progress through its workflow
Page: Proceed with a task only when all sub-tasks are completed
Page: Transition parent issue only when certain issue sub-task types are done

Copy parsed text to a field

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
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 addresses 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

- Validation on sibling sub-tasks depending on issue type and status
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 - validator
 - sub-task
 - transition
- Block a transition until all sub-tasks have certain 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
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- Automatically close resolved sub-tasks when parent issue is closed
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- Change parent's status depending on sub-task's summary
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- Close parent issue when all sub-tasks are closed
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- Proceed with a task only when all sub-tasks are completed
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- Prevent transitioning when there is a blocking issue
 - example
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- Transition parent issue only when certain issue sub-task types are done
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 - sub-task
 - transition
- Enforce certain type of sub-tasks to be "Resolved" to allow executing a transition
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 - validator
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 - transition
- Restrict parent issue from closing if it has sub-tasks that were created during a given parent issue status
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