Automatically resolve an epic when all its stories are resolved

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Features used to implement the example

- · Write field on linked issues or sub-tasks
- Block or hide a transition for an issue depending on its issue links

We add Write field on linked issues or sub-tasks to "Resolve Issue" transition on Story's workflow, in order to execute transition "*Resolved Issue*" on Epic issue. To do it we write the name of the transition into virtual field "Execute transition (delayed execution)". We use a boolean expression in order to check that the rest of the stories are already resolved or closed.

We add Blocking or hiding a transition depending on its issue links to "Resolve Issue" transition in Epic's workflow, in order to prevent Epic from being manually resolved while some of its Stories are still "Open" or "In Progress".

Example: Automatically resolve an epic when all its stories are resolved

We are going see how to implement a mechanism in our workflows, in order to auto-transition "Epic" to Resolved status when all its "Stories" become Resolved or Closed. Let's see in screenshots how to configure the different features.

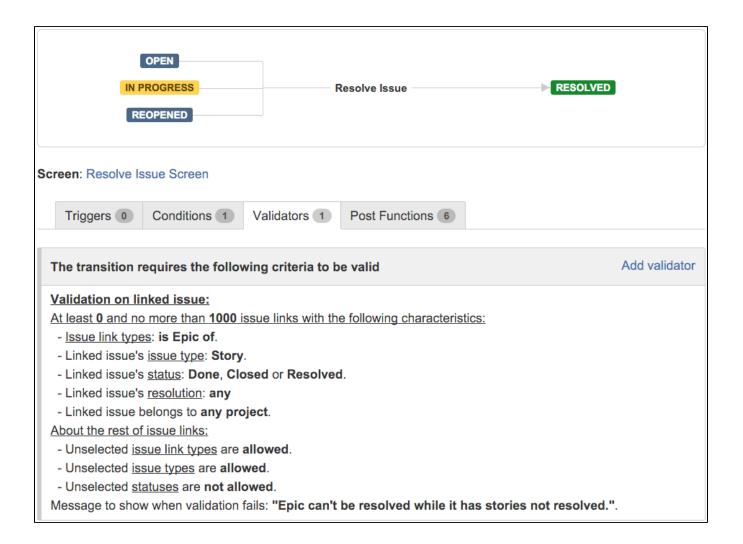
We add Block or hide a transition for an issue depending on its issue links to "Resolved Issue" transition in "Epic's workflow:

Issue link types:	is blocked by
	blocks
	is cloned by
	clones
	is duplicated by
	duplicates
	□ has Epic
	✓ is Epic of
	relates to
	relates to
	Selected issue link types will be allowed. Nevertheless, if you didn't select any issue link type, and checked "Allow unselected issue link types", there won't be applied any filter by issue link type, i.e., every issue link type will be allowed.
Issue types for linked issues:	□ Bug
	□ ½ Epic
	New Feature
	Story
	□ ✓ Task
	□
	□ Sub-task
	Linked issues of 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.
Statuses for linked issues:	□ → Popen
	□ C In Progress
	□ ♣ Reopened
	Resolved
	✓
	□ ♣ To Do
	✓ औ Done
	Linked issues 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.

Resolutions for linked issues:	UNRESOLVED, i.e. no resolution value
	□ Fixed
	□ Won't Fix
	Duplicate
	Incomplete
	Cannot Reproduce
	Done
	□ Won't Do
	Linked issues 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 issue resolution will be allowed.
Linked issues must belong to:	 any project current project any but current project projects introduced:
	Introduce a comma separated list of project keys. If you write field codes (format %[nnnnn]) they will be replaced with its values. ignore links to issues in other projects
Filtering by field values: Optional boolean expression that should be satisfied by linked issues. (Syntax	1
Specification)	Leave field empty for no filtering. [Line 1 / Col 1]
	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.
	String Field Code Injector:
	Summary - [Text] - %{00000} 🔻
	Field Code for Current Issue Field Code for Linked Issues
	Numeric/Date Field Code Injector: Original estimate (minutes) - [Number] - {00068}
	Field Code for Current Issue Field Code for Linked Issues
	Example 1: boolean condition {00012} <= ^{00012} will require that linked issues have Due Date equal or later than current issue's Due Date. Example 2: boolean condition %{00074} ~ ^%{00074} AND ^%(00017) in ["Blocker", "Critical"] will require that linked issues have Fixed versions contained in current issue's Fixed versions and Priority is Blocker or Critical.
Minimum required number of	0
issue links:	Minimum number of linked issues required to satisfy selected filtering conditions (issue link type, issue type, status, resolution, project and field values).
Maximum allowed number of issue links:	Maximum number of linked issues allowed to satisfy selected filtering conditions (issue link type, issue type, status, resolution, project and field values).

Allow unselected issue link	₩
types:	Unselected issue link types will be ignored, i.e., they will be allowed regardless of linked issues' issue type, status, resolution, field values and number. Nevertheless, if none of the issue link types are selected, checking this option will make the condition behave as if you had selected every issue link type.
Allow unselected issue types:	Linked issues in unselected issue types will be ignored, i.e., they will be allowed regardless of their status, resolution, field values and number. Nevertheless, if none of the issue types are selected, checking this option will make the condition behave as if you had selected every issue type.
Allow unselected statuses:	Linked issues in unselected statuses will be ignored, i.e., they will be allowed regardless of their resolution, field values and number. Nevertheless, if none of the statuses are selected, checking this option will make the condition behave as if you had selected every status.
Allow unselected resolutions:	Linked issues in unselected resolutions will be ignored, i.e., they will be allowed regardless of their field values and number. Nevertheless, if none of the resolutions are selected, checking this option will make the condition behave as if you had selected every resolution.
Allow unsatisfied condition on field values:	Linked issues not satisfying filter by field values will be ignored, i.e., they will be allowed regardless of their number.
Message to show when validation fails:	Epic can't be resolved while it has stories not resolved. Set translations for installed languages

Once configured, transition "Resolved Issue" in Epic's workflow will look like this:



Source value that will be written into target field:	Select a source type: field in current issue e parsed text (basic mode) parsed text (advanced mode) math or date-time expression [Line 1 / Col 15] Resolve Issue
	Numeric/Date-Time Field Code Injector: Original estimate (minutes) - [Number] - {00068} Field Code for Current Issue Field Code for Linked Issues / Subtasks
Target field that will be set in linked issues or subtasks:	Execute transition (delayed execution) - [Workflow transition] Don't overwrite target field if it's already set.
Filtering by issue link type:	is blocked by blocks is cloned by clones is duplicated by duplicates ✓ has Epic is Epic of is caused by causes relates to relates to Only issues linked to current issue by selected issue link types will be written.
Write also subtasks fulfilling condition on issue type, status and project:	This option only makes sense when current issue itself is not a subtask.
Write also sibling subtasks fulfilling condition on issue type, status and project:	Sibling subtasks are understood as subtasks with the same parent as current issue. This option only makes sense when current issue is itself a subtask.

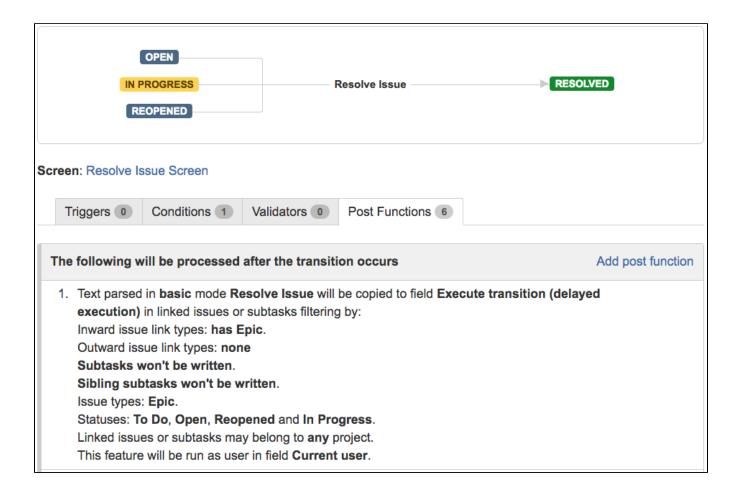
Filtering linked issues or subtasks by	☑ Epic
issue type:	□ Story
	□
	□ ■ Bug
	□ ► New Feature
	□ ✓ Task
	□ Improvement
	QA Sub-task
	□ Sub-task
	Selected issue types will be written, but if you don't select any, it won't be aplied any filter by issue type. In that case all the issue types will be written.
Filtering linked issues or subtasks by	
status:	✓ in Progress
	□ ♣ Resolved
	□ ♣ Closed
	□ 🗳 Done
	□ ♠ Acceptance
	□ ♣ Fail
	□ ♠ Pass
	Retest
	Active
	□ • Inactive
	□ ♣ Cancelled
	Selected statuses will be written, but if you don't select any, it won't be aplied any filter by status. In that case issues in any status will be written.
Linked issues or subtasks belong to:	any project
	current projectany but current project



Note that: if you are using Jira **7.0 or higher** with versions of **Jira Workflow Toolbox** older than Release Notes for **2.2.8**, you should input the following boolean expression in parameter **Filtering by field values**:

count(filterByIssueType(linkedIssues("is Epic of"), "Story"), "Done, Closed, Resolved")) = count
(filterByIssueType(linkedIssues("is Epic of"), "Story")) - 1

Once configured, transition "Resolved Issue" in Story's workflow will look like this:



This same configuration should be added to "Close Issue" and "Done" transitions in Story's workflow, in case direct closing is allowed for stories.

Other examples of that functions

Write field on linked issues or sub-tasks

Page: Add and remove a single or a set of items from multi valued fields Page: Automatically become watcher of every issue blocking an issue

assigned to you

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

Page: Automatically resolve an epic when all its stories are resolved

Page: Compose dynamic text by inserting field values in a text template

Page: Copy "Due date" into a date type custom field in a linked issue if it's greater than current issue's "Due date"

Page: Copy attachments from one issue to another

Page: Create a comment in sub-tasks when parent transitions

Page: Creating a Jira Service Desk internal comment

Page: Creating a Jira Service Desk internal comment on linked issues

Page: Execute transition in epic

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

Page: Moving sub-tasks to "Open" status when parent issue moves to "In Progress"

Page: Sum sub-task's "Time Spent" (work logs) and add it to a certain linked issue

Page: Transition sub-tasks when parent is transitioned

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

Page: Automatically resolve an epic when all its stories are resolved

Related Usage Examples

- Block or unblock a transition after an issue rested a specific time in a status
 - example
 - o condition
 - o validator
 - o transition
- Block transition until all sub-tasks are in a specific status category
 - o example
 - transition
 - o condition
- Validation and condition based on time expressions
 - example
 - o condition
 - validatortransition
- Set a condition in a global transition which only applies in a certain status
 - o example
 - o condition
 - transition
- Validation on sibling sub-tasks depending on issue type and status
 - o example
 - validator
 - sub-tasktransition
- Block a transition until all sub-tasks have certains fields populated

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

- o example
- o condition
- validator
- o sub-task
- transition
- Block an epic's transition depending on linked issues status and due date
 - o example
 - validator
 - o issue-links
 - o transition
- Moving story to "In Progress" when one of its sub-tasks is moved to "In Progress" (Transition issues)
 - o example
 - o post-function
 - transition
- Transition sub-tasks when parent is transitioned
 - o example
 - post-function
 - o sub-task
 - transition
 - outdated
- Transition only a sub-task among several ones
 - o example
 - post-function
 - o sub-task
 - transition
 - o outdated
- Moving sub-tasks to "Open" status when parent issue moves to "In Progress"
 - o example
 - o post-function
 - o sub-task
 - o transition
 - o outdated
- Moving story to "Ready for QA" once all its sub-tasks are in "Ready for QA" status
 - o example
 - o post-function
 - o sub-task
 - transitionoutdated
- Change parent's status depending on sub-task's summary
 - (Transition issues)
 - example
 - o post-function
 - o transition
- Automatically close resolved sub-tasks when parent issue is closed
 - example
 - o post-function
 - o sub-task
 - o transition
 - o outdated
- Change parent's status depending on sub-task's summary
 - example
 - o post-function
 - o sub-task
 - o transition
 - o outdated