Automatically close parent when all sub-tasks are done

On this page

Use case

Avoid the manual work by closing the parent after checking if all sub-tasks are done, let automation do it for you!

⇄ Issue transitioned event

1

Create a new rule and name it appropriately.

Providing a description will help you to identify what the rule does but this step is **optional**.

2

Add a **Trigger Issue transitioned event**

▼ JQL condition

3

Add the following expression:

```
issuetype in subtaskIssueTypes()
```

▼ Boolean condition

4

Next to the **JQL condition** click on **Add Boolean condition**

1

Add the following expression:

```
%{trigger.issue.status} = "Done" and count(siblingSubtasks()) = count
(filterByStatus(siblingSubtasks(), "Done"))
```

This way the rule execution will only continue, if the current issue was transitioned to **Done** and if all other sub-tasks under the current parent issue are also in status **Done**.

Issue selector

5 Next to the **Boolean condition** click on **Add Issue selector**

1 Choose **Parent issue** as the target issue.

Transition issue

6 Finally, next to the **Issue selector** click on **Add Action Transition issue**

1 Set the mode to **Transition to status** and choose the status **Done**.

7 Enable the rule by clicking on the **Enable button**

Screencast

No screencast available at the moment.

Import the example

Import the **JSON** file below to get started in no time.

JSON

```
{
    "name": "Automatically close parent when all sub-tasks are done",
    "description": "",
    "creator": "admin",
    "status": false,
    "triggerData": "",
    "triggerType": "ISSUE_TRANSITIONED_EVENT",
    "configuration": {
        "refs": [
            "issue",
            "system",
            "trigger.issue",
            "trigger.parent"
        ],
```

```
                "triggerType": ""
        },
        "children": [
            {
                "sequence": 0,
                "type": "JQL_CONDITION",
                "ruleEntityType": "CONDITION",
                "configuration": {
                    "refs": [
                        "issue",
                        "project",
                        "system",
                        "trigger",
                        "trigger.issue",
                        "trigger.parent"
                    ],
                    "jql": "issuetype in subtaskIssueTypes()",
                    "jqlParsingMode": "jql",
                    "actingUser": "field_00020"
                },
                "children": [
                    {
                        "sequence": 0,
                        "type": "BOOLEAN_CONDITION",
                        "ruleEntityType": "CONDITION",
                        "configuration": {
                            "refs": [
                                "issue",
                                "project",
                                "system",
                                "trigger",
                                "trigger.issue",
                                "trigger.parent"
                            ],
                            "expression": "%{trigger.issue.status} = \"Done\" and count(siblingSubtasks()) =
count(filterByStatus(siblingSubtasks(), \"Done\"))",
                            "expressionParsingMode": "logical",
                            "actingUser": "field_00020"
                        },
                        "children": [
                            {
                                "sequence": 0,
                                "type": "ISSUE_SELECTOR",
                                "ruleEntityType": "SELECTOR",
                                "configuration": {
                                    "refs": [
                                        "issue",
                                        "project",
                                        "system",
                                        "trigger",
                                        "trigger.issue",
                                        "trigger.parent"
                                    ],
                                    "option": "parent",
                                    "issueListExpressionParsingMode": "issues",
                                    "actingUser": "field_00020"
                                },
                                "children": [
                                    {
                                        "sequence": 0,
                                        "type": "TRANSITION_ISSUE",
                                        "ruleEntityType": "ACTION",
                                        "configuration": {
                                            "refs": [
                                                "issue",
                                                "issues",
                                                "project",
                                                "selector.issue",
                                                "selector.parent",
                                                "system",
                                                "trigger",
```

```
                                "trigger.issue",
                                "trigger.parent"
                            ],
                            "option": "status",
                            "status": "10012",
                            "actingUser": "field_00020"
                        },
                        "children": null,
                        "hasChildren": false
                    }
                ],
                "hasChildren": true
            }
        ],
        "hasChildren": true
    }
],
"hasChildren": true
}
```

Related examples

Title	Automated action	JWT feature	Label
Transition affected issues when releasing a version (manually)	Transition issue action	⚡	
Close epic when stories are done	Transition issue action	⚡	
Automatically close parent when all sub-tasks are done	Transition issue action	⚡	STAFF PICK
Resolve issues when all options of a checklist are checked	Transition issue action	⚡	
Schedule issues for re-submission	Transition issue action	⚡	
Schedule the escalation of overdue issues	Transition Issue	⚡	
Keep the status of parents and sub-tasks in sync	Transition issue action	⚡	STAFF PICK
Transition affected issues when releasing a version (automatically)	Transition issue action	⚡	STAFF PICK

Transition issues when assigned to a developer	Transition issue action	⚡	
Automatically close sub-tasks when parent is completed	Transition issue action	⚡	**STAFF PICK**
Re-open issue when a new comment is added	Transition issue action	⚡	
Close stories when epic is done	Transition issue action	⚡	

If you still have questions, feel free to refer to our support team.