Automatically close parent when all sub-tasks are done

On this page

Issue transitioned event | JQL condition | Boolean condition | Issue selector | Transition issue | Screencast | Import the example | Related examples

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
        }
    ],
    "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.