Sum up value in parent issue on field change in sub-tasks

On this page

Use case

When a custom "Number field" is **changed in a sub-task**, a corresponding field in the parent issue, representing the sum of those field values, will be **automatically updated**.

The rule executes every time the field is being updated on a sub-task.

Don't want to use an automation rule? Just take a look at JWT calculated number fields instead!

Field changed 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** **Field changed event**

> **1**   **Fields**
>
> Choose your custom **Number Field**

> **2**   **Changed to**
>
> Choose **Any value**

Issue selector

3   Add **Selector** **Issue selector**

Target Issue(s)

4

Choose **Parent Issue**

➡ Update field action

5

Next to the **Issue Selector** click on **Add** **Action** **Update field**

1

Field

Choose your custom **Number Field**

2

Update to

Choose **Value returned by parsed expression**

3

Parser Expression

Set the mode to **Advanced text** and enter the following **Parser Expression**

```
sum(fieldValue({issue.cf11502}, subtasks()))
#Replace field code with the field code of your custom field. Use the field
dropdown to automatically insert the field code
```

> `{issue.cf11502}` is the **field code** for the custom **number field** to be summed up. The field code will differ in your instance.

6

Enable the rule by clicking on the **Enable button** ⭘ ⏻ ✓

▭◖ Screencast

This is how the configuration above should look on your screen

Your browser does not support the HTML5 video element

> You can get the same result by configuring JWT calculated number fields.

✎ Import the example

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

JSON

After importing the JSON file, make sure to **check** the **configuration** of the rule. Non-existing configuration elements (issue types, fields, values etc.) will be highlighted.

```
{
    "name": "Update summed up value in parent issue on field change in sub-tasks",
    "description": "",
    "creator": "admin",
    "status": true,
    "triggerData": "",
    "triggerType": "FIELD_CHANGED_EVENT",
    "configuration": {
        "refs": [
            "issue",
            "system",
            "trigger.issue",
            "trigger.parent"
        ],
        "fieldId": "12202",
        "option": "any",
        "triggerType": ""
    },
    "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": "UPDATE_FIELD",
                    "ruleEntityType": "ACTION",
                    "configuration": {
                        "refs": [
                            "issue",
                            "issues",
                            "project",
                            "selector.issue",
                            "selector.parent",
                            "system",
                            "trigger",
                            "trigger.issue",
                            "trigger.parent"
                        ],
                        "fieldId": "12202",
                        "mode": "parser",
                        "value": "sum(fieldValue({issue.cf12202}, subtasks()))",
                        "valueParsingMode": "math",
                        "sendMail": "true",
                        "actingUser": "field_00020"
                    },
                    "children": null,
                    "hasChildren": false
                }
            ],
            "hasChildren": true
        }
    ],
    "hasChildren": true
}
```

📁 Related use cases

Title	Automated action	JWT feature	Label
Inherit value from parent in Advanced Roadmaps hierarchy	Update field action	⚡	
Copy excerpted value from new comments	Update field action	⚡	
Bulk clear the issue resolution	Update field action	⚡	STAFF PICK
Add components of the epic to the current issue	Update field action	⚡	
Sum up value in parent issue on field change in sub-tasks	Update field action	⚡	
Delete the attachments of an issue 30 days after closing it	Update field action	⚡	
Update assignee and reporter to facilitate user deletion	Add comment action Assign issue action Update field action	⚡	STAFF PICK
Bulk edit the issue resolution	Update field action	⚡	STAFF PICK
Keep the priority of parents and sub-tasks in sync	Update field action	⚡	

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