Calculated Text Field

Calculated Text Field

This type of **read-only** custom field has a value which is dynamically calculated from a custom text expression. It can be used to show a text composed from one or more field values.

You can also create any custom text value depending on the values of other fields in current issue, linked issues, sub-tasks, epics, stories, or any other issue in your Jira instance selected by a JQL query.

> ⓘ For stability reasons, self-referencing of the field to be configured is not allowed in basic mode. In all other modes, we do not recommend using the field code, except in special cases

Configuration

Parsing Modes

There **2** parsing modes available:

- <u>**Basic**</u>: with this simple parsing mode you can write free text and insert field codes with format **%{nnnnn}** or **%{nnnnn.i}** anywhere in your text. These field codes will be replaced at run-time with the corresponding field values in current issue.

- <u>**Advanced**</u>: with this parsing mode we can do much more complex text composition thanks to the usage of functions for replacing substrings, changing case, reading fields in linked issues, sub-tasks, JQL selected issues, and much more. It requires the text to be parsed to be written as **string expression** respecting strictly the **parser syntax**.

  Automatic parsing mode converter: You can write your text in *basic mode*, and then switch to *advanced mode*. The text to be parsed will be automatically rewritten as a string expression. Now, you can simply make the modifications you require, making use of text formatting functions, or inserting math or time expressions where needed.

> ⓘ For stability reasons, self-referencing of the field to be configured is not allowed in basic mode. In all other modes, we do not recommend using the field code, except in special cases

Text to Be Parsed

This parameter contains the text expression that will be parsed in the selected parsing mode.

Example: Calculated Text Field "Components of Sub-tasks"

In this example we show how to create a calculated text field called "**Components of Subtasks"** that will contain a comma separated list with the components of current issue's sub-tasks**.**

1) Create a new **Calculated Text Field** custom field called "**Components of Sub-tasks**" at **Administration > Issues > Custom fields > Add Custom Field > Advanced > Calculated Text Field (by JWT)**

2) Go to configuration screen of the newly created custom field:

3) Click on 'Edit Text Expression':

4) Configure the field by selecting a **parsing mode**, and by entering a **text to be parsed**:

Text Expression

Parsing Mode:

○ Basic   **Basic mode**: Insert field codes anywhere in the text, and they will be replaced with corresponding field values. Field code formats are %{nnnnn}, and %{nnnnn.i} for Cascading Select fields (i = 0 for base level).

◉ Advanced   **Advanced mode**: Strings literals are written in double quotes ("This is a string."). Operator '+' is used to concatenate strings, and field codes are like in basic mode, e.g., "Issue key is " + %{00015} + ".". More information at **parser syntax documentation**.

Text to be parsed for Calculated Text Field: [Line 1 / Col 54]   **Syntax Specification**   Check Syntax

```
1 toString(distinct(fieldValue(%{00094}, subtasks())))
```

Components - [Components] - %{00094}   ▾   Insert String Value

Original estimate (minutes) - [Number] - {00068}   ▾   Insert Numeric Value

5) Once configured, the configuration of the new custom field looks like this:

Configure Custom Field: Sub-tasks Components   ⑦

Below are the Custom Field Configuration schemes for this custom field. Schemes are applicable for various issues types in a particular context. You can configure a custom field differently for each project context or in a global context. Moreover, project level schemes will over-ride global ones.

- Add new context
- View Custom Fields

Default Configuration Scheme for Sub-tasks Components

Default configuration scheme generated by JIRA

Applicable contexts for scheme: Edit Configuration

    Issue type(s):
       Global (all issues)

Text Expression: Edit Text Expression

    toString(distinct(fieldValue(%{Components}, subtasks())))

    Parsed in **advanced** mode.

The text expression used in this example is: `toString(distinct(fieldValue(%{00094}, subtasks())))`, where **%{00094}** is field code for **Components**.