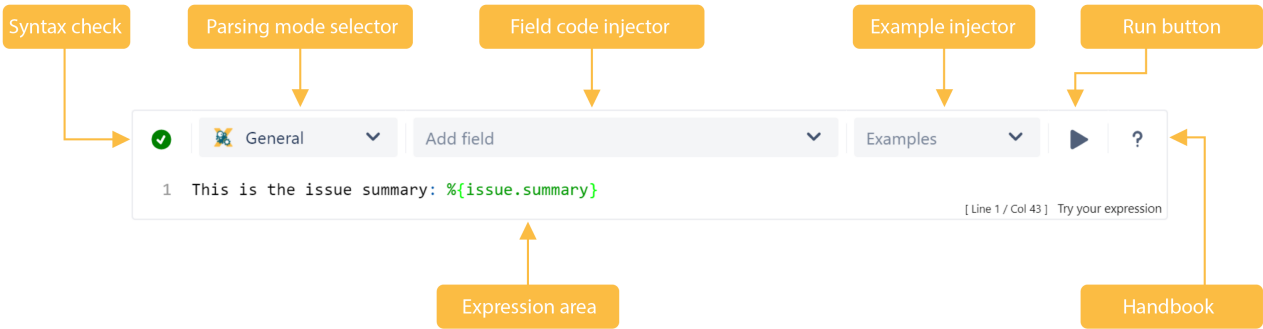


JWT expression editor

The **JWT for Jira Cloud expression parser** provides a **huge set of functionalities** to **read and manipulate data** from **Jira issues, users, projects and more**.

The main point of contact with the expression parser for the end user is the **JWT expression editor**.

Depending on what you are doing, you will be presented with different options and functionalities, but in the end it always comes down to **writing an expression**, which will be evaluated on runtime.



Syntax check

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1. As you type in your expression the syntax check button is synchronized with your expression and you can see if your expression is valid or not.
2. Click on the **syntax check** button to review your expression.

Output	Description
	Valid expression: The parser expression entered is valid.
	Parsing error: The parser expression entered is not valid and you can do the following to fix the issue: <ul style="list-style-type: none">• Check your selected Parsing mode• Try an example configuration from the right hand side of the configuration interface

Parsing mode selector

A **parsing mode** determines **how** the JWT for Jira Cloud expression parser interprets an expression. The **available** parsing modes depend on the **context** in which you use the expression.

General

Add field

Examples

▶

?

1

General

Jira expression

[Line 1 / Col 0] Try your expression

Read more about all [available parsing modes](#).

Field code injector

The field code injector is a **dynamic select list** that lists all available field codes. The fields, or their values, will be replaced with actual values at **runtime**.

The available fields and their notation depend on the selected [Parsing mode](#). Custom fields are shown if they are defined for a global context or if the "Jira Workflow Toolbox Cloud" user has browse permissions for the respective project.

Learn more about [field codes](#)!

JWT expressions	Jira expressions
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A few basic examples

Field name	Field code (JWT expression)	Field code (Jira expressions)
Summary	<code>%{issue.summary}</code>	<code>issue.summary</code>
Description	<code>%{issue.description}</code>	<code>issue.description</code>
Assignee	<code>%{issue.assignee}</code>	<code>issue.assignee.accountId</code>
Reporter	<code>%{parent.reporter}</code>	<code>issue.parent.reporter.accountId</code>

Example injector

General

Add field

Examples

▶

?

Need inspiration? Each parsing mode comes with **built-in example expressions**. If you choose an example from the dropdown menu, the expression will be automatically added to the **editing area** of the expression editor.

Run button

General

Add field

Examples

▶

?

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[Line 1 / Col 0] Try your expression

By clicking on the run button, a test expression panel is displayed under your expression. To test your expression, do the following:

1. Select an **issue** as the current issue
2. Click on **Run**

The screenshot shows the Jira expression editor interface. At the top, there's a toolbar with a green checkmark, a 'General' dropdown, an 'Add field' button, and an 'Examples' dropdown. Below this is the expression editor area containing the text: '1 This issue is due on `%{issue.dueDate}` and currently has `%{count(subtasks())}` sub-tasks.' To the right of the expression is a status bar showing '[Line 1 / Col 87] Try your expression'. Below the editor is a 'Test expression' panel. It has a 'Current issue picker' showing 'TIS-21 - Create Email Campaign for Satu...'. Below the picker is the instruction 'Select an issue as the current issue to preview the result of the expression.' and three buttons: 'Run' (highlighted in blue), 'Reset', and 'Close'. The 'Run' button has been clicked, and the panel now shows a 'Parsed expression' section with a green checkmark. The parsed expression is: 'This issue is due on `2020-10-12` and currently has `2` sub-tasks.'

The result of the expression is displayed. For more detailed test scenarios, please have a look at: [Test your expression](#).

Handbook

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Help is just a click away. If you click on the Help button, an **in-line handbook** will pop up, which provides information about almost any feature of JWT for Jira Cloud - from field codes, to [Parsing modes](#) and [JWT expression parser functions](#). In case you have selected the [Jira expression mode](#), the [documentation](#) will be opened in a new browser window.

Expression area

This is where you can enter a plain text and optionally use [Field codes](#) and functions belonging to the selected parsing mode.

Which options you will actually have depend on the selected [Parsing mode](#).

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Auto-complete

Tech tip: Auto-complete

The expression editor comes with a built-in **auto-complete feature**.

Simply press **<CTRL> + <space>** and get a searchable list of [JWT expression parser functions](#) and available field codes.

General

Add field

Examples

?

1 sub

This expression

Delayed

500

Executing

Run as

Current

Keys of sub-tasks

Keys of sub-tasks - Parent

Number of sub-tasks

Number of sub-tasks - Parent

substring(text, startIndex, endIndex)

subtasks()

subtasks(issueKeys)

subtasks(issueList)

issue.subtasks

parent.subtasks

issue.subtasks.length

parent.subtasks.length

TEXT

ISSUE LIST

ISSUE LIST

ISSUE LIST

[Line 1 / Col 3]

Try your expression

Highlighting makes it easy to recognize essential parts of the expression.

If you still have questions, feel free to refer to our [support](#) team.