Get started with calculated fields

JWT ships with **three** custom field types to **calculate** field values, **display live data**, or even pull data from online service providers such as Google.

Each custom field type, from **number** to **text**, or **date-time** fields, comes with a different set of options that let you define exactly what you want to see as a result using the full power of the JWT expression editor.

Last but not least, you can individually define **how** the **result** of the calculation should **appear**, from different time formats to currency symbols, by configuring individual Display formats.

Calculated date-time fields

This type of **read-only** custom field contains a value which is dynamically calculated from a custom <u>math/time expression</u>. It can be used to obtain a **date-time** value depending on the value of the **current issue** or in **other issues**.

Calculated number fields:

This type of **read-only** custom field has a value which is dynamically calculated from a custom <u>math/numeric expression</u>. It can be used to obtain a **numeric** value depending on the value of other fields in the **current issue** or in any **other issues**.

Calculated text fields

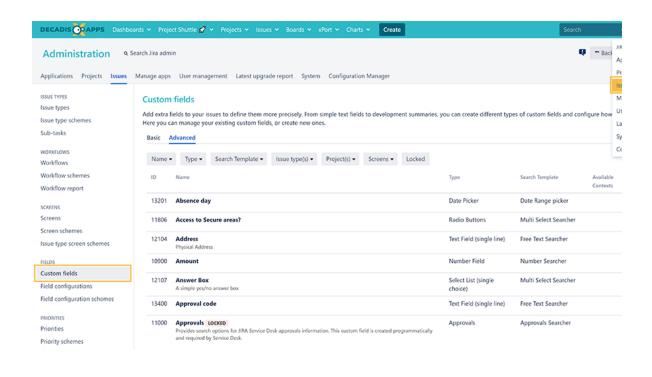
This type of **read-only** custom field has a value which is dynamically calculated from a custom text expression. It can be used to show a text composed from one or more field values returned by field codes.

First steps



After installing JWT, head over to Administration Issues

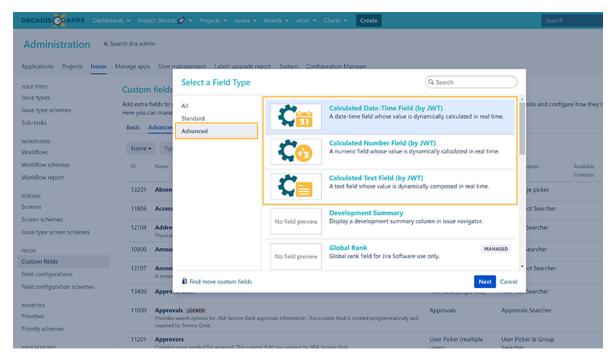
Then browse to Custom fields



Create your first custom field

from the Custom fields admin section, head over to Add custom Field Advanced then add the desired field offered by JWT:

- JWT calculated date-time fields
- JWT calculated number fields
- · JWT calculated text fields

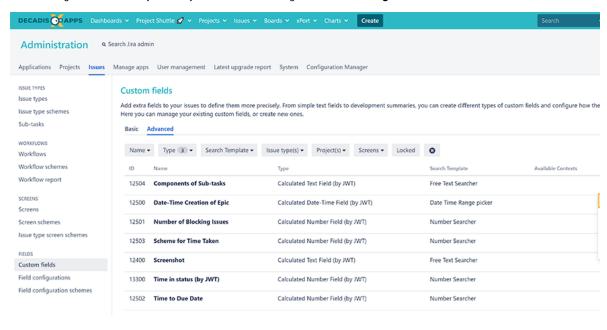


Therefore they won't be displayed on create, edit and transition screens, even if you added them explicitly to those screens.

Configure your custom field



On the configuration screen of your newly created custom field go to Actions Configure



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Start by adding an expression that is used to calculate the field.

Configure Custom Field: Date-Time Creation of Epic

Default configuration scheme generated by Jira

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 proj global context. Moreover, project level schemes will over-ride global ones.

- Add new context
- View Custom Field

Default Configuration Scheme for Date-Time Creation of Epic

Applicable contexts for scheme:

Edit Configuration

Issue type(s):
Global (all issues)

Expression:

first(fieldValue({issue.created}, linkedIssues("has Epic")))

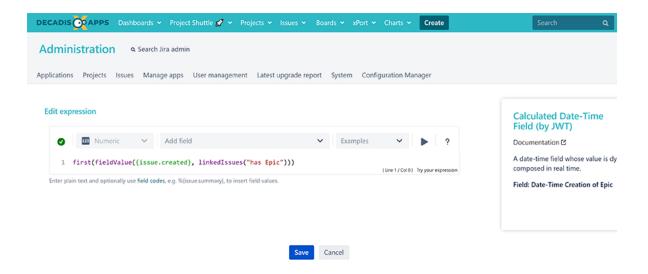
Edit expression

Display format:

Date time picker

Example: 13/Nov/20 8:05 AM

Timezone: Server timezone Edit display format

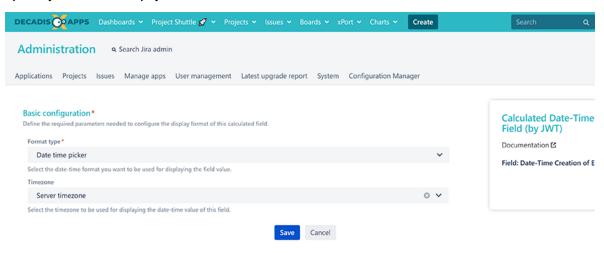


A non-optimized expression can cause performant problems when re-indexing, to avoid this kind of problems there are some tips to keep in mind:

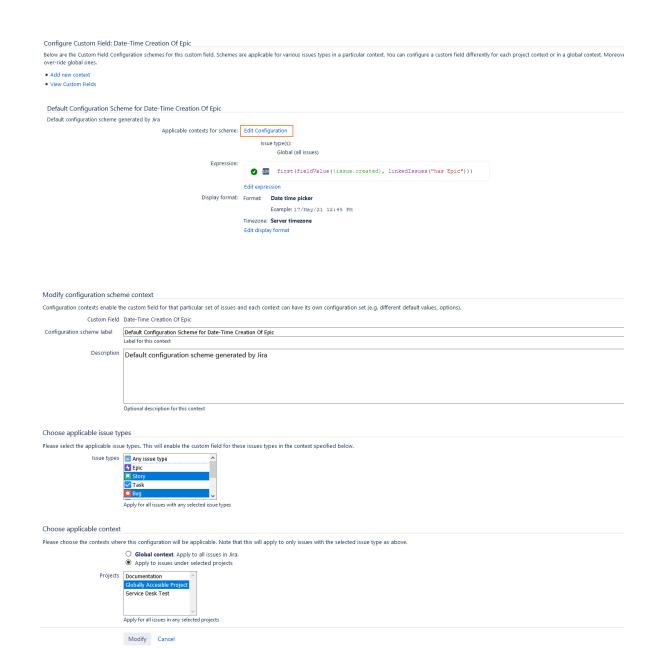
- When using field codes in the expression, if their value is null it can add some delay to the re-indexing because of
 the errors thrown. To avoid this it's recommendable to check with a ternary operator if the field code's value is null
 or not to make the calculation or not.
- When the value depends on fields belonging to issues different from current issue, for example its linked issues or issues returned by a JQL query, problems will be faced when using it in a JQL search. This happens because its index is only updated when the current issue is updated, so the value indexed might not be updated if those different issues have not been updated, even if the value is displayed correctly. It would be necessary to re-index before executing the JQL search.



Optionally: Customize the display format.







The **field context configuration** allows to decrease the number of issues in which the calculated field should be calculated and displayed, so making a good use of it will improve the performance of the field and of the re-indexing.



Check out the result

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To learn more about configuring the **display formats**, check out the following page.

Been there, done that? If you need even more inspiration, make sure to check out these useful use cases that will definitely get you started.

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