Calculated Number Field

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Calculated Number Field

This type of **read-only** custom field has a value which is dynamically calculated from a custom math/numeric expression. It can be used to obtain a numeric value depending on the value of other fields in current issue, or in any other issues: linked issues, sub-tasks, epics, stories, JQL selected issues, etc.

> 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

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Configuration

Math expression

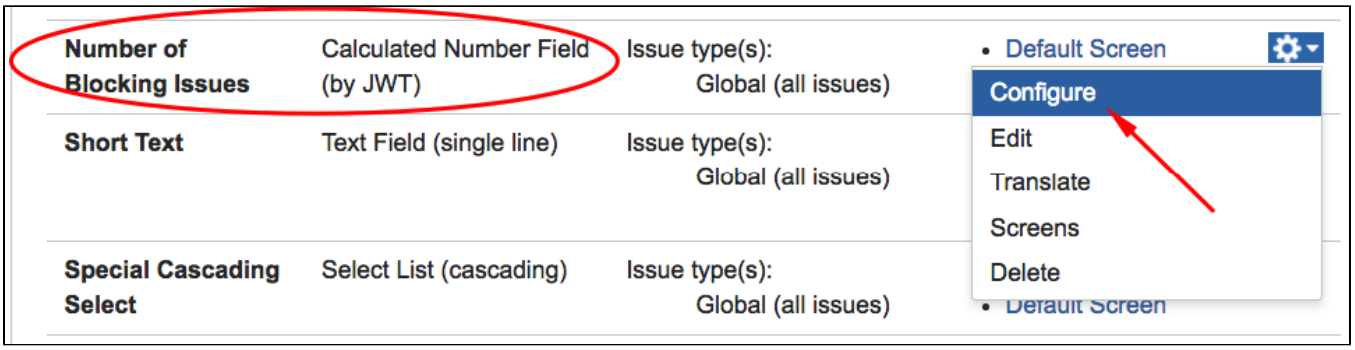
This parameter contains a valid **math expression** that will be calculated each time the value of the field is required.

Example 1: Calculated Number Field "Number of Blocking Issues"

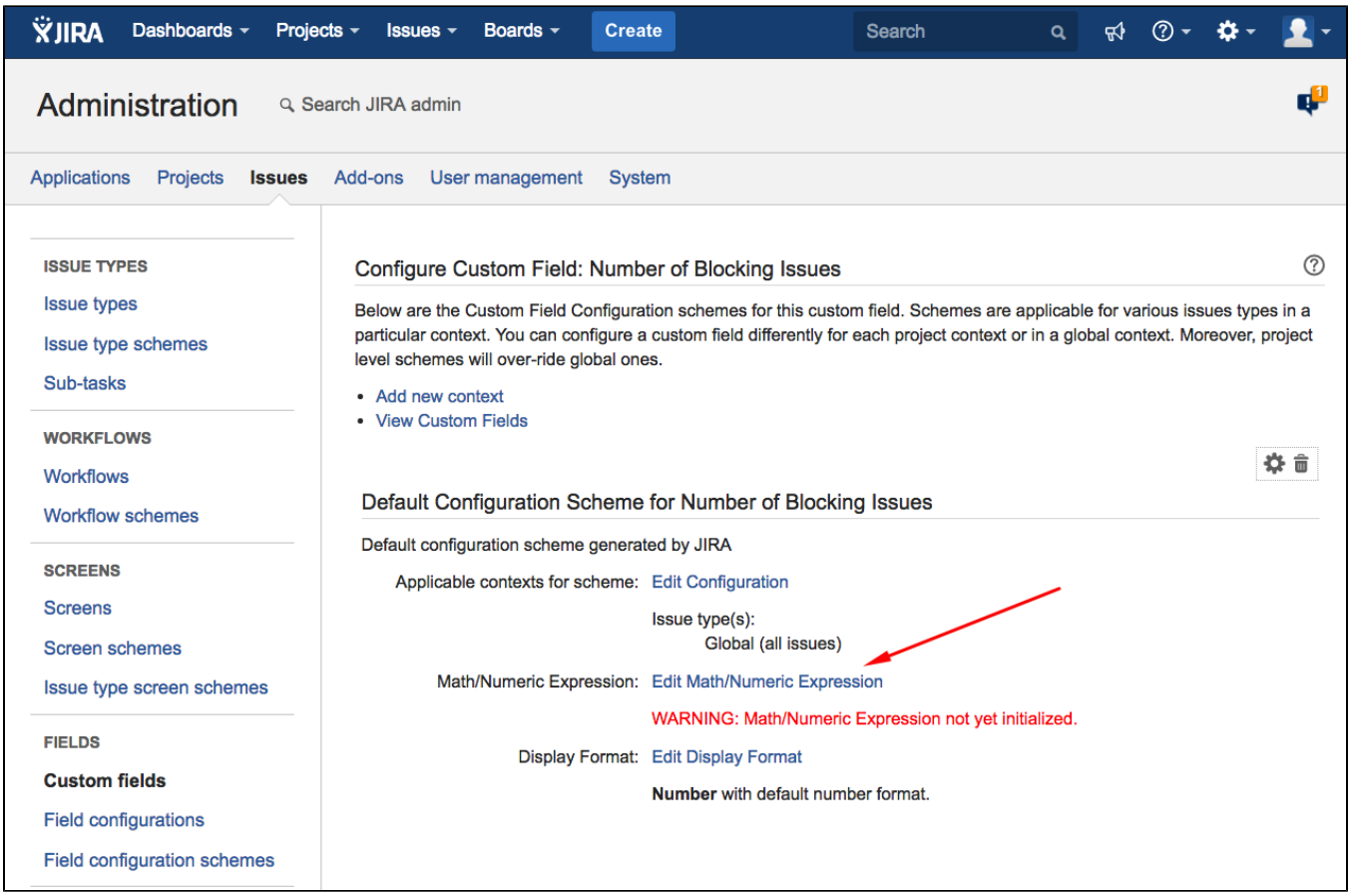
In this example we show how to create a calculated number field called "**Number of Blocking Issues**" that will return the number of unresolved issues current issue is linked to with "**is blocked by**" issue link type.

1) Create a new Calculated Number Field custom field called "**Number of Blocking Issues**" at **`Administration > Issues > Custom fields > Add Custom Field > Advanced > Calculated Number Field (by JWT)`**

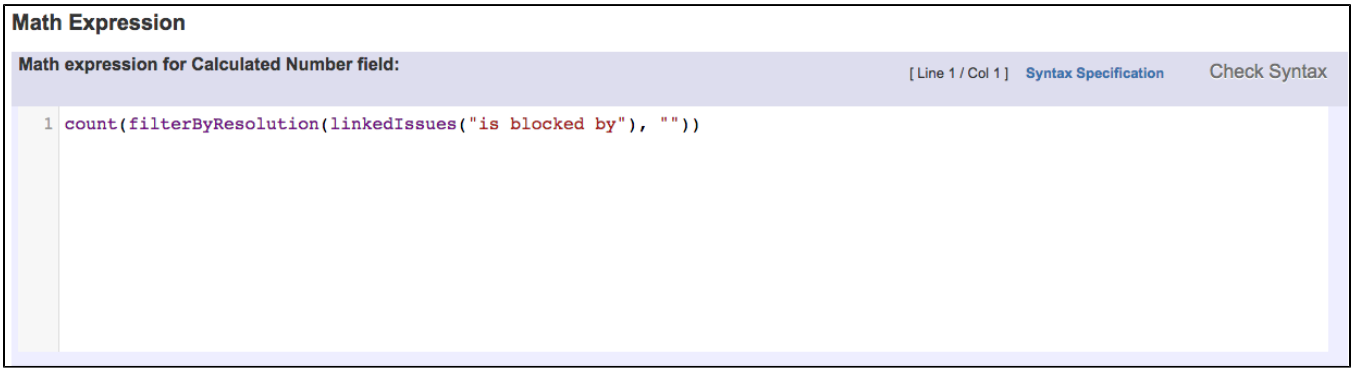
2) Go to configuration screen of the newly created custom field:



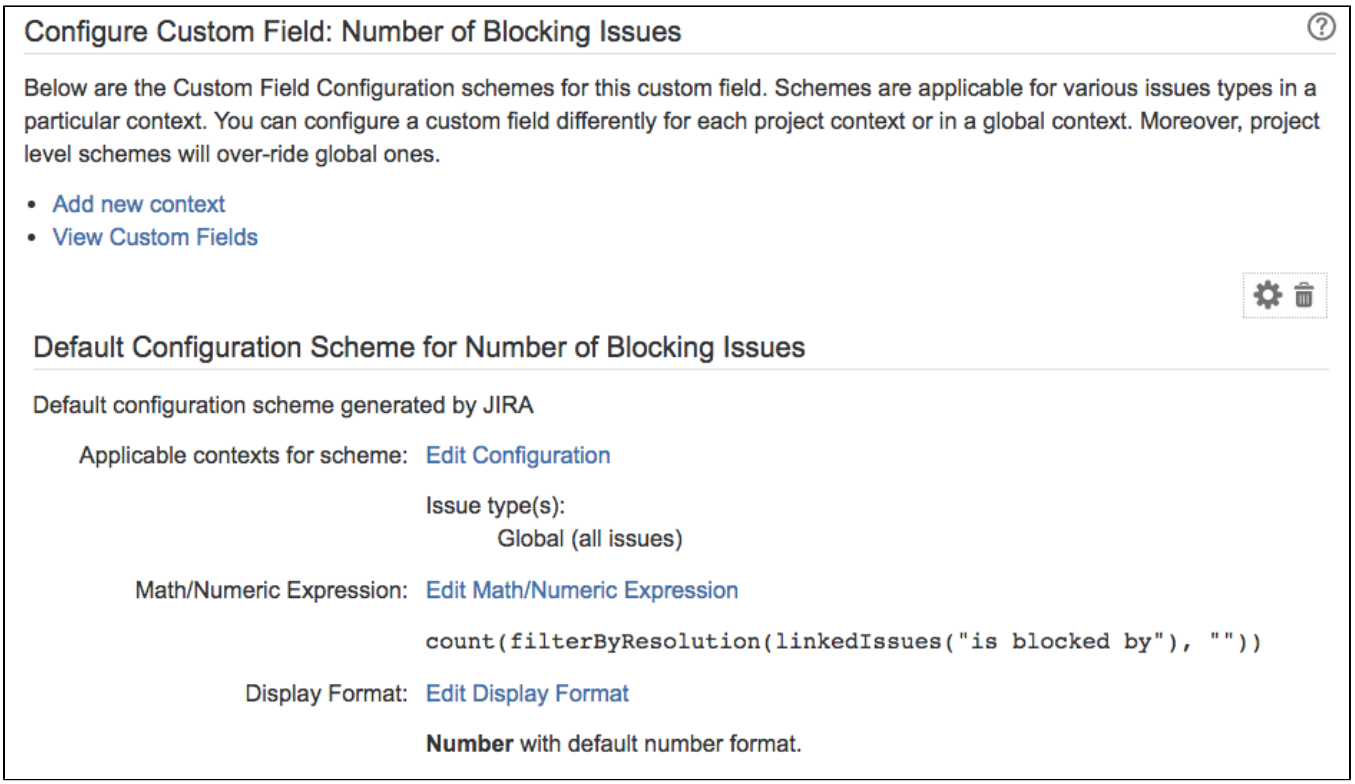
3) Click on 'Edit Math/Numeric Expression':



4) Configure the field by entering a **math/numeric expression**:



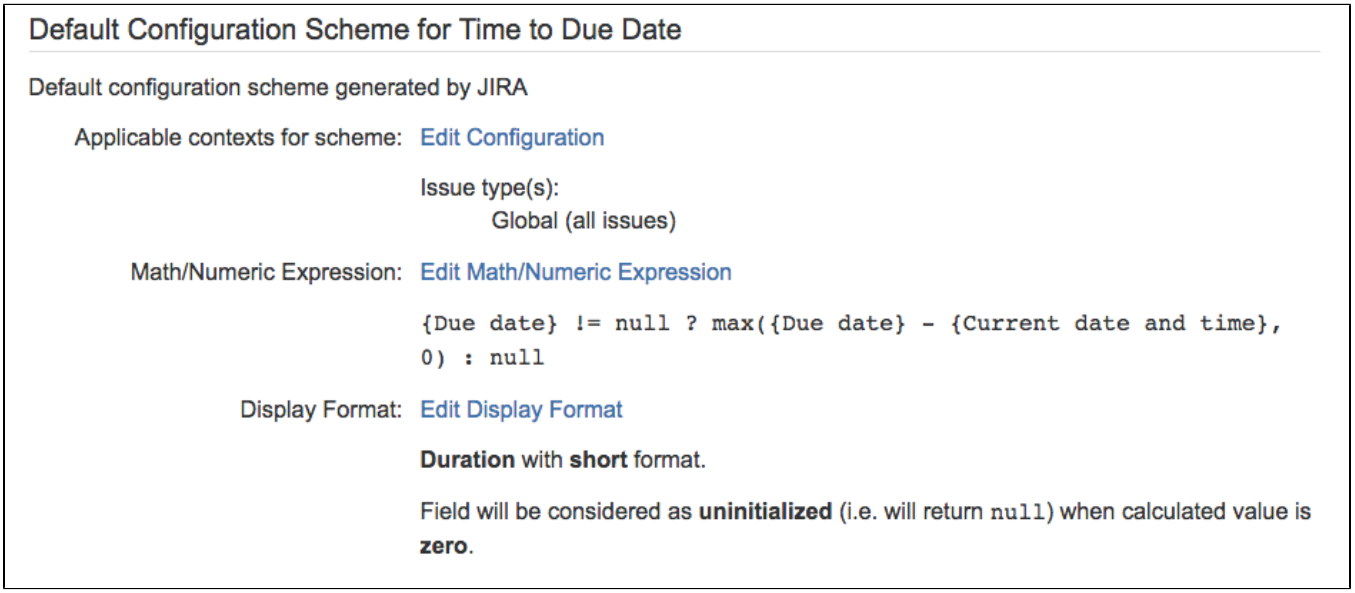
5) Once configured, the configuration of the new custom field looks like this:



The math expression used in this example is: **`count(filterByResolution(linkedIssues("is blocked by"), ""))`**.

Example 2: Calculated Number Field "Time to Due Date"

In this example we configure a calculated number field that will show the remaining time for Due Date:



We use the following math-time expression: **`{00012} != null ? max({00012} - {00057}, 0) : null`**, where **{00012}** is code for **Due date**, and **{00057}** is code for **Current date and time**.

Notes:

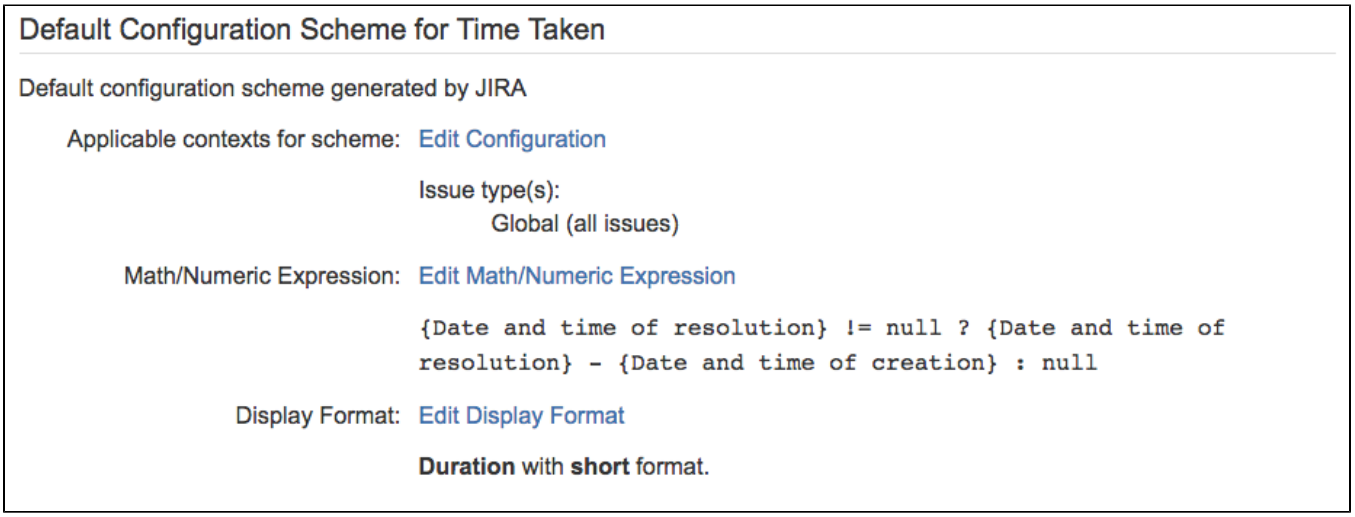
- Conditional operator `? :` in order to avoid errors in the subtraction when **Due date** is not set. In this case we return **`null`**, i.e., not initialized.
- Function `max(x, y)` is used to avoid returning a negative duration when **Due date** has passed.

We select **duration** as display format, since the numeric value being calculated, a number of milliseconds, represents a time duration. This way the value is represented like **`Time to Due Date:`** `2d 9h 43m` instead of a single number.

We also check parameter "**Uninitialized when calculated value is zero**", since we don't want the field to be shown once Due Date has been reached.

Example 3: Field to show time since issue creation to resolution

In this example we configure a calculated number field for showing the time elapsed since issue creation to issue resolution. For issues which are still not resolved, the field will be uninitialized, thus it won't be shown in the view screen:



We use the following math-time expression: **`{00112} != null ? {00112} - {00009} : null`** , where **{00112}** is code for **Date and time of resolution**, and **{00009}** is code for **Date and time of creation**.

Notes:

- Conditional operator `? :` in order to avoid errors in the subtraction when **Date and time of resolution** is not set. In this case we return **`null`**, i.e., not initialized.

We select "**Duration with short format**" as display mode. This way, the string value of the field will be something easily readable, like **`1d 11h 30m`**, but the numerical value will be the duration expressed in milliseconds.

Other display options available are:

- **Duration with long format**: we get something like **`1 day, 11 hours, 30 minutes`**.
- **Use time tracking settings**: we get duration displayed using the number of **working hours** per day, and the number of **working days** per week as configured in **time tracking**, instead of 24 hours per day and 7 days per week.