

Set a custom field "Urgency" depending on a combined value of issue's priority and "Impact" custom field

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Features used to implement the example

- [Set a field as a function of other fields](#)
- [Mathematical and date-time expression calculator](#)

Example: Set a custom field "Urgency" depending on a combined value of issue's priority and "Impact" custom field

Let's suppose we want to set a custom field called **"Urgency"** depending on issue **"Priority"** and the value of another custom field called **"Impact"**. We associate a numerical value to issue **"Priority"** and to custom field **"Impact"**. These two values may be applied to a mathematical function to calculate another numerical value that will represent the **"Urgency"** of the issue. In our case we simply have summed both values, but we could have used a much more complex formula. Once we get the result of the sum, we revert the process, associating each possible result of the sum to an options in custom field **"Urgency"**.

1. Use post-function [Set a field as a function of other fields](#) to set on virtual fields **"Ephemeral number 1"** and **"Ephemeral number 2"** with a numeric value associated to issue **"Priority"** and the value of custom field **"Impact"**.
2. Use post-function [Mathematical and date-time expression calculator](#) to calculate the sum of **"Ephemeral number 1"** and **"Ephemeral number 2"** and store the result on **"Ephemeral number 1"**.
3. Use post-function [Set a field as a function of other fields](#) to set custom field **"Urgency"** from the value of **"Ephemeral number 1"**.

Using post-function [Set a field as a function of other fields](#) we associate a numerical value to each possible value of issue **"Priority"**, and this value is stored in auxiliary field **"Ephemeral number 1"**.

Field to be checked for matching with type 1 setting rules:	Priority - [Issue priority]	
This field is only used by rules where conditional part is a regular expression written in brackets: <code>{(regular_expression)}value</code>		
Target field to be set:	Ephemeral number 1 - [Number]	
Field to be set by first matched setting rule. Type of the field is shown in square brackets. Check documentation on Virtual Fields to get information about suitable values for setting selected target field.		
☐ Don't overwrite target field if it's already set.		
Setting rules: There are two types of setting rules, and both types can be combined in the same post-function. Rule formats: - type 1: <code>{(regular_expression)}value</code> - type 2: <code>{(boolean_expression)}value</code> Write only one rule per line. <i>value</i> may be a parsed text or a mathematical or time formula, depending on the type of selected <i>Target field</i> . Regular expression syntax	<pre>1 (Trivial)0 2 (Minor)1 3 (Major)2 4 (Critical)3 5 (Blocker)4</pre>	
☐ Evaluate all the setting rules , not stopping at first match. Only for multi-valued and ephemeral target fields.		
		[Line 5 / Col 12] Check Syntax

Using post-function "[Set a field as a function of other fields](#)" we associate a numerical value to each possible value of custom field "**Impact**", and this value is stored in auxiliary field "**Ephemeral number 2**".

Field to be checked for matching with type 1 setting rules:	Impact - [Select List (single choice)]
This field is only used by rules where conditional part is a regular expression written in brackets: <code>"(regular_expression)"value</code>	
Target field to be set:	Ephemeral number 2 - [Number]
Field to be set by first matched setting rule. Type of the field is shown in square brackets. Check documentation on Virtual Fields to get information about suitable values for setting selected target field.	
☐ Don't overwrite target field if it's already set.	
Setting rules: There are two types of setting rules, and both types can be combined in the same post-function. Rule formats: - type 1: <code>"(regular_expression)"value</code> - type 2: <code>"(boolean_expression)"value</code> Write only one rule per line. <i>value</i> may be a parsed text or a mathematical or time formula, depending on the type of selected <i>Target field</i> . Regular expression syntax	1 (Low) 0 2 (Medium) 1 3 (High) 3
☐ Evaluate all the setting rules , not stopping at first match. Only for multi-valued and ephemeral target fields.	
[Line 3 / Col 9] Check Syntax	

Using post-function "[Mathematical and date-time expression calculator](#)" we store in "**Ephemeral number 1**" the result of summing "**Ephemeral number 1**" and "**Ephemeral number 2**".

Target field:	Ephemeral number 1 - [Number]
Field to be written with the result of evaluation of the formula.	
☐ Don't overwrite target field if it's already set.	
Formula:	[Line 1 / Col 19] Syntax Specification Check Syntax
1 {00058} + {00059}	

Note that:

- {00058} is code for numeric value of "**Ephemeral number 1**"
- {00059} is code for numeric value of "**Ephemeral number 2**"

Using post-function "[Set a field as a function of other fields](#)" custom field "**Urgency**" is set depending on the result of the former sum, which is stored in "**Ephemeral number 1**".

Field to be checked for matching with type 1 setting rules:
Ephemeral number 1 - [Number]

This field is only used by rules where conditional part is a regular expression written in brackets: `{(regular_expression)}value`

Target field to be set:
Urgency - [Select List (single choice)]

Field to be set by first matched setting rule. Type of the field is shown in square brackets. Check documentation on [Virtual Fields](#) to get information about suitable values for setting selected target field.

☐ Don't overwrite target field if it's already set.

Setting rules:
There are two types of setting rules, and both types can be combined in the same post-function.
Rule formats:
- type 1: `{(regular_expression)}value`
- type 2: `{boolean_expression}value`
Write only one rule per line.

value may be a parsed text or a mathematical or time formula, depending on the type of selected Target field.
[Regular expression syntax](#)

1 (0)No Urgency
2 (1)Very Low Urgency
3 (2)Low Urgency
4 (3)Moderate Urgency
5 (4)High Urgency
6 (5)Very High Urgency
7 (6)Top Urgency

☐ Evaluate all the setting rules, not stopping at first match. Only for multi-valued and ephemeral target fields.

[Line 7 / Col 16]
Check Syntax

Once configured "Create Issue" transition looks like this:

The following will be processed after the transition occurs
Add post function

1. Creates the issue originally.

2. The field **Ephemeral number 1** will be set according to the evaluation of **Priority** against the following set of rules:
(Trivial) 0
(Minor) 1
(Major) 2
(Critical) 3
(Blocker) 4
This feature will be run as user in field **Current user**.

3. The field **Ephemeral number 2** will be set according to the evaluation of **Impact** against the following set of rules:
(Low) 0
(Medium) 1
(High) 3
This feature will be run as user in field **Current user**.

4. Field **Ephemeral number 1** will be assigned with the calculation result of the formula:
{Ephemeral number 1} + {Ephemeral number 2}
This feature will be run as user in field **Current user**.

5. The field **Urgency** will be set according to the evaluation of **Ephemeral number 1** against the following set of rules:
(0)No Urgency
(1)Very Low Urgency
(2)Low Urgency
(3)Moderate Urgency
(4)High Urgency
(5)Very High Urgency
(6)Top Urgency
This feature will be run as user in field **Current user**.

Other examples of that function

Set a field as a function of other fields

Page: Add watcher depending on security level
Page: Add watchers based on issue type
Page: Add watchers depending on the value of a custom field
Page: Assign issue based on the value of a Cascading Select custom field
Page: Assign issue to a specific user based on a specific custom field value
Page: Assign issue to current user if assignee is empty
Page: Assign issue to current user if the user is not member of a certain project role
Page: Change assignee based on a custom field
Page: Change parent's status depending on sub-task's summary
Page: Changing issue priority depending on issue description
Page: Compose dynamic text by inserting field values in a text template
Page: Copy "Due date" into a date type custom field in a linked issue if it's greater than current issue's "Due date"
Page: Limit the number of hours a user can log per day
Page: Make parent issue progress through its workflow
Page: Rise priority if due date is less than 3 weeks away
Page: Set "Due date" depending on the value of other fields, in case it's uninitialized
Page: Set "Due date" to a specific day of next week no matter of date of creation this week
Page: Set "Due date" to current date at issue creation if not initialized
Page: Set a custom field "Urgency" depending on a combined value of issue's priority and "Impact" custom field
Page: Set a date based on current date
Page: Set a field based on reporter's email
Page: Set a watcher at ticket creation depending on custom field's value
Page: Set assignee depending on issue type
Page: Set security level based on groups and project roles the reporter or creator are in
Page: Set security level depending on reporter or creator
Page: Set the assignee based on a condition
Page: Set the value of a field of type "User Picker" depending on other field's value
Page: Set watchers depending on the value of a custom field
Page: Setting a custom field (User Picker) based on the value of another custom field (Text Field)
Page: Setting a field's default value depending on another field
Page: Setting the priority depending on the multiplication of custom fields
Page: Transition an issue automatically depending on the value of a field
Page: Unassign an issue when assigned to project leader
Page: Update checkboxes custom field if a file has been attached during a transition
Page: Using project properties to calculate custom sequence numbers

Mathematical and date-time expression calculator

Page: Automatic work log with start and stop work transitions
Page: Automatically log work time when the user uses a "Stop Progress" transition
Page: Calculate the time elapsed between 2 transition executions
Page: Getting the number of selected values in a custom field of type Multi Select
Page: Implement a form with a series of questions and calculate a numeric value based on the answers
Page: Increment a field or set to 1 if it's not set
Page: Set "Date-Time Picker" custom field with current date-time
Page: Set "Due date" 6 natural days (or work days) earlier than a "Date Picker" custom field
Page: Set "Due date" to a specific day of next week no matter of date of creation this week
Page: Set "Due date" with certain time offset from current date
Page: Set "Total time spent" to "Current date and time - date and time of last update"
Page: Set a custom field "Urgency" depending on a combined value of issue's priority and "Impact" custom field
Page: Sum "Time Spent" in all sub-tasks of issues linked with issue link types "LinkA", "LinkB", "LinkC"
Page: Triage Jira Service Desk email requests (Move issues)

Related Usage Examples

- Validate compatible values selection among dependent custom fields
 - example
 - validator
 - custom-field
- Validate a custom field "Story Points" has been given a value in Fibonacci sequence
 - example
 - validator
 - custom-field
- Validate that multi-user picker custom field A does not contain any user in multi-user picker custom field B
 - example
 - validator
 - custom-field
- Validation on the value of a Cascading Select field
 - example
 - validator
 - custom-field
- Make different fields mandatory depending on the value of a Select List custom field
 - example
 - validator
 - custom-field
- Make a custom field mandatory when priority is "Critical" or "Blocker" and issue type is "Incident"
 - example
 - validator
 - custom-field
- Enforce a field (Select List) to be set when another field (Radio Button) has a certain value (works with any kind of field type)
 - example
 - validator
 - custom-field
- Make attachment mandatory depending on the value of certain custom field
 - example
 - validator
 - custom-field
- Create a dynamic set of sub-tasks based on checkbox selection with unique summaries
 - example
 - post-function
 - custom-field
 - sub-task
- Total of all story points in an epic
 - example
 - custom-field
 - calculated-field
- Show timeliness of an issue based on two date pickers
 - example
 - custom-field
 - calculated-field
- Add and remove a single or a set of items from multi valued fields
 - example
 - post-function
 - custom-field
 - issue-links
 - sub-task
- Highest value of a custom field among linked issues
 - example
 - custom-field
 - calculated-field
- Google Maps location from address
 - example
 - calculated-field
 - custom-field
- Make certain custom field required in resolve screen only if the resolution was set to "Fixed"
 - example
 - validator
 - custom-field

