

# Make attachment mandatory depending on the value of certain custom field

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## Features used to implement the example

- [Boolean validator with math, date-time or text-string terms](#)

## Example: Make attachment mandatory depending on the value of certain custom field

Is it possible to use [Jira Workflow Toolbox](#) to implement the following **validation**: In the "Create Issue" transition, the **attachment must be required only if a custom field has certain values**. The custom field is a **select list** (let us call it "Color"), so what we are expecting is something like this: when you are creating an issue, the attachment must be required if **Color = "Blue" OR Color = "Red"**. For the rest of the list values the attachment would be optional.

The validation can be implemented using [Boolean validator with math, date-time or text-string terms](#) with the following configuration:

Boolean expression to be evaluated:
[ Line 1 / Col 56 ]
Syntax Specification and Examples

```
1  %{11900} != "Blue" AND %{11900} != "Red" OR {00135} > 0
```

Logical connectives: and, or and not. Alternatively you can also use &, | and !.

Comparison operators: =, !=, >, >=, < and <=. Operators ~, !~, in, not in, any in and none in can be used with **strings**, **multi-valued fields** and **lists**.

Logical literals: true and false. Literal null is used with = and != to check whether a field is initialized, e.g. {00012} != null checks whether **Due Date** is initialized.

**CHECK SYNTAX**

### NUMERICAL AND DATE-TIME TERMS

Numeric and Date-Time field values: insert field codes with format {nnnnn}.

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

Valid date-time literal formats: yyyy/MM/dd [hh:mm] or yyyy-MM-dd [hh:mm]. Time literals use format: hh:mm.

There is a set of **mathematical functions** and **time macros and functions** available to be used in your expression.

### TEXT-STRING TERMS

Text-String field values: insert field codes with format %{nnnnn} or %{nnnnn.i} for referencing levels in cascading select fields (i = 0 for base level).

Summary - [Text] - %{00000}
Insert String Value

String literals: written in **double quotes**, e.g., "This is a string literal."

String concatenation: use operator '+' to concatenate string values, e.g., "The summary of issue with key " + %{00015} + " is \" + %{00000} + "\"."

Escape character: character \ is used with characters '"', '\', 'n', 'r', 't', 'f' and 'b' to invoke an alternative interpretation.

There is a set of **string functions** available to be used in your expression.

**Skip validation when:**  
Inhibit the validator under selected circumstances.

☐ Transition is triggered by a **bulk operation**.  
☐ Transition is triggered by a **JIRA Workflow Toolbox post-function**.  
☐ Current issue is being created by cloning. Only makes sense in *Create Issue* transition.

**Message to show when validation fails:**

Select value for field "Color" requires at least one file attachment.  
Field code injector:  
Summary - [Text] - %{00000}

Field codes with format %(nnnnn) can be inserted in the failure message and its translations, and they will be replaced with actual field values at runtime.  
[Set translations for installed languages](#)

Text to be parsed is: `%{11900} != "Blue" AND %{11900} != "Red" OR {00135} > 0`

Note that:

- `%{11900}` is code for custom field "Color". This code depends on each particular Jira instance.
- `{00135}` is code for numeric value of virtual field "Number of transition attachments".

Virtual field "Number of attachments" (field code {00073}) may also be used, since at transition "Create Issue" both virtual fields contain the same value. Anyway, if you intend to implement this validation in other transitions, you should use virtual field "Number of transition attachments".

Once configured, the transition "Create Issue" will look like this:

Transition: Create Issue
Edit
View Properties
?

Create Issue

OPEN

This is the **initial** transition in the workflow.

**Screen:** None - initial transition does not have a view.

Validators 2
Post Functions 4

The transition requires the following criteria to be validAdd validator

Only users with **Create Issues** permission can execute this transition.

Only if the following boolean expression is true: ***%{Color} != "Blue" AND %{Color} != "Red" OR {Number of transition attachments} > 0***

Message to show when validation fails: **Selected value for field "Color" requires at least one file attachment.**

## Other examples of that function

Page: Block a transition until all sub-tasks have certain fields populated

Page: Block an epic's transition depending on linked issues status and due date

Page: Block or hide a transition for an issue depending on its issue links

Page: Block or unblock a transition after an issue rested a specific time in a status

Page: Block transition until all sub-tasks are in a specific status category

Page: Close parent issue when all sub-tasks are closed

Page: Enforce a field (Select List) to be set when another field (Radio Button) has a certain value (works with any kind of field type)

Page: Ensure that all issues linked with a certain issue link type have "Due Date" field set

Page: If field A is populated then, field B must also be populated

Page: Limit issue creation per role and issue type

Page: Limit the number of hours a user can log per day

Page: Limit valid dates for work logs

Page: Make "Time Spent" field required when there is no time logged in the issue

Page: Make a custom field mandatory when priority is "Critical" or "Blocker" and issue type is "Incident"

Page: Make attachment mandatory depending on the value of certain custom field

Page: Make different fields mandatory depending on the value of a Select List custom field

Page: Make linked issues, sub-tasks and JQL selected issues progress through its workflows

Page: Make parent issue progress through its workflow

Page: Prevent issue creation if another issue with same field value already exists

Page: Reject duplicated file names in attachments

Page: Require at least one sub-task in status "Resolved" or "Closed" when "Testing required" is selected in Check-Box custom field

Page: Require issue link when resolving as duplicate

Page: Restrict parent issue from closing if it has sub-tasks that were created during a given parent issue status

Page: Restrict sub-task type creation depending on parent issue status

Page: Restrict sub-task type creation depending on parent issue type

Page: Set a condition in a global transition which only applies in a certain status

Page: Validate a custom field "Story Points" has been given a value in Fibonacci sequence

## Related Usage Examples

- 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
- Validate compatible values selection among dependent custom fields
  - 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
- 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
- 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

Page: Validate compatible values selection among dependent custom fields

Page: Validate only issue links created in transition screen

Page: Validate that multi-user picker custom field A does not contain any user in multi-user picker custom field B

Page: Validation and condition based on time expressions

Page: Validation based on the value of a date type project property

Page: Validation on issue attachments

Page: Validation on MIME types of issue attachments

Page: Validation on sibling sub-tasks depending on issue type and status

Page: Validation on the value of a Cascading Select field

- 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