

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

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Features used to implement the example

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

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

We have 3 custom fields

1. **"Development Type"** with values **"Core"** and **"Custom"**
2. **"Story Points"**
3. **"Hours"**

So the requirement is, if Development Type = **"Core"**, the Story Points field would be displayed and if Development Type = **"Custom"**, the Hours field would be displayed.

It is possible to set 2 validations in your transition, in order to ensure that:

1. When **"Development Type"** = Core" then field **"Story Points"** will be **set** and given a value **higher than 0**, and field **"Hours"** is **not set** or **zero**
2. When **"Development Type"** = Custom" then field **"Hours"** will be **set** and given a value **higher than 0**, and field **"Story Points"** is **not set** or **zero**

To do it, you just need to use [Boolean validator with math, date-time or text-string terms](#) with the following configurations:

When **"Development Type"** = Core" then field **"Story Points"** will be **set** and entered a value **higher than 0**, and field **"Hours"** is **not set** or **zero**:

Boolean expression to be evaluated:

[Line 1 / Col 98] Syntax Specification and Examples ?

```
1 %{12500} = "Core" IMPLIES ({12501} != null AND {12501} > 0 AND ({12502} = null OR {12502} = 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:

Core type developments requires "Story Points" to be entered, and doesn't admit "Hours" to be set.

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](#)

Expression used is: `%{12500} = "Core" IMPLIES ({12501} != null AND {12501} > 0 AND ({12502} = null OR {12502} = 0))`

Other variation of the usage example

When "Development Type = Custom" then field "Hours" will be **set** and given a value **higher than 0**, and field "Story Points" is **not set** or **zero**:

Boolean expression to be evaluated:
[Line 1 / Col 98]
Syntax Specification and Examples

```

1  %{12500} = "Custom" IMPLIES ({12502} != null AND {12502} > 0 AND ({12501} = null OR {12501} = 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}
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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

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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.

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☐ Transition is triggered by a **JIRA Workflow Toolbox post-function**.
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Message to show when validation fails:

Custom type developments requires "Hours" to be entered, and doesn't admit "Story Points" to be set.

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](#)

Expression used is: `%{12500} = "Custom" IMPLIES ({12502} != null AND {12502} > 0 AND ({12501} = null OR {12501} = 0))`

Note that in the particular JIRA instance I used to build this example:

- `%{12500}` is field code for string value of field **"Development Type"**
- `{12501}` is field code for numeric value of field **"Story Points"**
- `{12502}` is field code for numeric value of field **"Hours"**

Once configured, your transition will look like this:

Triggers 0

Conditions 0

Validators 2

Post Functions 13

The transition requires the following criteria to be valid[Add validator](#)

Only if the following boolean expression is true: **%{Development Type} = "Core" IMPLIES ({Story Points} != null AND {Story Points} > 0 AND ({Hours} = null OR {Hours} = 0))**

Message to show when validation fails: **"Core type developments requires "Story Points" to be entered, and doesn't admit "Hours" to be set."**

Only if the following boolean expression is true: **%{Development Type} = "Custom" IMPLIES ({Hours} != null AND {Hours} > 0 AND ({Story Points} = null OR {Story Points} = 0))**

Message to show when validation fails: **"Custom type developments requires "Hours" to be entered, and doesn't admit "Story Points" to be set."**

Other examples of that function

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

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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](#)

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Page: [Validation based on the value of a date type project property](#)

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