

Validation on MIME types of issue attachments

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Features used to implement the example

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

Example: Validation on MIME types of issue attachments

You may also find it useful knowing that you can also validate the type of files attached.

Let us suppose we want to validate that our issue has the following files attached:

- At least 1 .jar file.
- At least 3 images (any format).
- No more than 5 .txt file
- Exactly 1 XML file.

To implement this validation we will use [Boolean validator with math, date-time or text-string terms](#) with the following configuration:

Boolean expression to be evaluated:

Syntax Specification

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```
matches(%{00072}, "(.*application/java-archive.*){1,}") AND matches(%{00072}, "(.*text/plain.*){0,5}") AND matches(%{00072}, "(.*text/xml.*){1}") AND matches(%{00072}, "(.*image/.*){3,}")
```

Logical connectives: **or**, **and** 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.

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.

Message to show when validation fails:

The issue should contain at least 1 .jar file and 3 images, no more than 5 .txt files and 1 .xml file.

Boolean expression used is: `matches(%{00072}, "(.*application/java-archive.*)" {1,}) AND matches(%{00072}, "(.*text/plain.*)" {0,5}) AND matches(%{00072}, "(.*text/xml.*)" {1,}) AND matches(%{00072}, "(.*image/.*)" {3,})`

Note that:

- `%{00072}` is field code for "**Attachments with details**"

To design this configuration, We have previously used [Copy a parsed text to a field](#) post-function in order to see the value that field "**Attachments with details**" takes when we attach different file types. Then it is easy to write a regular expressions for matching desired values.

Other examples of that function

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