

# JWT Release Notes 2.2.16

[2016-08-23] Released [Jira Workflow Toolbox 2.2.16](#)

## Improvements

- " [A field is/isn't initialized](#)" condition and " [Fields required or changed validator](#)" validator now support also system fields. Until the moment they only supported custom fields.
- Function **hasChanged(*field\_code*)** now supports the following system fields:
  - Summary
  - Description
  - Due date
  - Priority
  - Environment
  - Fixed Versions
  - Affected Versions
  - Components
  - Labels
  - Security Level
  - Resolution
  - Reporter
  - Assignee

Until now this function worked only with custom fields.

Function **hasChanged(*field\_code*)** is used when we set a validation that is incompatible with a condition in a same transition, typically when validating a value entered in the transition screen. When Jira evaluates the validations in a transition, it also reevaluates the conditions, and if they are not satisfied an Action `X is invalid` error message is shown and the transition is not executed.

**Example:** Let's suppose we have a boolean condition like `{00012} = null` (i.e., *Due date* = *null*) in a transition, so that it's only shown when *Due date* is empty. This transition also has a transition screen containing field *Due date*, and a boolean validation `{00012} != null`, in order to make *Due date* required in the transition.

The configuration described above will not work, since both condition and validation are mutually incompatible. We can fix it replacing the boolean condition with `{00012} = null OR hasChanged('%{00012}')`.

Some real examples: [Issue #363](#) and [Issue #260](#).

- Support for reading [Insight - Asset Management for Jira](#) custom fields, but not yet for setting them.

## Bug Fixes

- [Issue #324](#) - Transition executions triggered by post-functions stop working requiring plugin reinstall
- [Issue #334](#) - Post-function failed to progress an issue
- [Issue #388](#) - Jira server might hang up when executing features based on JQL queries returning a very big number of issues
- [Send an email](#) post-function doesn't work when using project roles for selecting **To** and **Cc** recipients
- Minor UI problems.
- A bug fix in the parser allows a very compact syntax for summing numeric fields when some of them may be uninitialized. These are the 3 ways available for summing 3 numeric fields:

| Expression                                                                                                      | Returned Value                                                                                                                                                                                                                                   | Notes                                                                                                |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <code>{10000} + {10001} + {10003}</code>                                                                        | Formula for summing 3 numeric custom fields when we are certain that <b>all 3 the fields are initialized</b> . In case any of these fields is not initialized, an error is raised and any of the following 2 expression examples should be used. | <code>{10000}</code> , <code>{10001}</code> and <code>{10003}</code> are three numeric custom field. |
| <code>(({10000} = null ? 0 : {10000}) + ({10001} = null ? 0 : {10001}) + ({10003} = null ? 0 : {10003}))</code> | Formula for summing 3 numeric custom fields when some of them <b>may be uninitialized</b> . When any of this fields is not initialized a zero value is assumed.                                                                                  | <code>{10000}</code> , <code>{10001}</code> and <code>{10003}</code> are three numeric custom field. |
| <code>sum([ {10000}, {10001}, {10003} ])</code>                                                                 | A more compact syntax for summing 3 numeric custom fields when some of them <b>may be uninitialized</b> .<br>Version <a href="#">JWT Release Notes 2.2.16</a> or higher is required.                                                             | <code>{10000}</code> , <code>{10001}</code> and <code>{10003}</code> are three numeric custom field. |