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