

# JWT Release Notes 2.2.30

[2017-02-03] Released [Jira Workflow Toolbox 2.2.30](#)

## New features

- 10 new parser functions:

Function	Returned value
<b>toString</b> (number list <b>I</b> , number <b>decimals</b> , string <b>separator</b> ) : string	Returns a string with a list of decimal representations of the numeric values in <b>I</b> , with the number of characters in the decimal part specified by parameter <b>decimals</b> and separated by string <b>separator</b> . Example: <code>toString([1.123, 2.452, 3.64612], 2, " : ")</code> returns the following string: "1.12 : 2.45 : 3.65".
<b>toString</b> (string list <b>I</b> , string <b>separator</b> ) : string	Returns a string a list of string values in <b>I</b> separated by string <b>separator</b> . Example: <code>toString(["blue", "red", "green"], "; ")</code> returns "blue; red; green"
<b>toString</b> (issue list <b>I</b> , string <b>separator</b> ) : string	Returns a string with a list of issue keys separated by string <b>separator</b> . Example: <code>toString(subtasks(), " ")</code> returns "CRM-5 CRM-6", being CRM-5 and CRM-6 the keys of current issue's sub-tasks.
<b>formatDuration</b> (number <b>duration</b> ) : string	Returns a string with the pretty representation of a time duration, i.e. a subtraction of 2 date-time values, using the language of current user's profile. Example: <code>formatDuration(2017-01-31 11:30 - 2017-01-30 00:00)</code> returns "1 day, 11 hours, 30 minutes".
<b>shortFormatDuration</b> (number <b>duration</b> ) : string	Returns a string with the most compact representation possible of a time duration, i.e. a subtraction of 2 date-time values, using the language of current user's profile. Example: <code>shortFormatDuration(2017-01-31 11:30 - 2017-01-30 00:00)</code> returns "1d 11h 30m".
<b>escapeHTML</b> (string <b>s</b> ) : string	Escapes the characters in a string <b>s</b> using HTML entities. Example: <code>escapeHTML("&lt;Français&gt;")</code> returns "&lt;Fran&ccedil;ais&gt;".
<b>unescapeHTML</b> (string <b>s</b> ) : string	Unescapes string <b>s</b> containing entity escapes to a string containing the actual Unicode characters corresponding to the escapes. Example: <code>unescapeHTML("&amp;quot;bread&amp;quot; &amp;amp; &amp;quot;butter&amp;quot;")</code> returns "\"bread\" & \"butter\"".
<b>allCommentCreators</b> () : string list	Returns a string list with the user names of comment creators in current issue, in ascension order by commenter's actuation time. A same user appears in the output as many times as comments has created. For anonymous comments an empty string ( " ") is returned.
<b>allCommentCreators</b> (string <b>issue_keys</b> ) : string list	Returns a string list with the user names of comment creators in issues with keys in <b>issue_keys</b> , in order of appearance in <b>issue_keys</b> , and in ascension order by commenter's actuation time. A same user appears in the output as many times as comments has created. For anonymous comments an empty string ( " ") is returned.
<b>allCommentCreators</b> (string list <b>I</b> ) : string list	Returns a string list with the user names of comment creators of issues in <b>I</b> , in order of appearance in <b>I</b> , and in ascension order by commenter's actuation time. A same user appears in the output as many times as comments has created. For anonymous comments an empty string ( " ") is returned.

## Bug fixes

- [Issue #494](#) - java.lang.StringIndexOutOfBoundsException: String index out of range: 0
- [Issue #497](#) - New Calculated Fields introduced in version [2.2.29](#) failed when included in Issue Navigator.
- [Calculated Date-Time Field](#) wasn't being shown in "Dates" section of issue detail screen.
- [Calculated Text Field](#) was being shown in UI even when it returned no value.