Field codes

On this page

Overview | Field code notation | What is a context? | Available field codes

One of the most important features of **JWT** is the easy accessibility to Jira data stored in **system fields** , **custom fields** and a significant number of other **virtual fields** that are made available by the **JWT** im plementation.

You can **access**, **validate**, do mathematical **calculations** and **manipulate** the values found in these fields through the use of **field codes** .

A field code is a **unique identifier** (key) that can be used in any JWT expression editor. At the same time a field code is a safety feature that makes your expressions **immune to custom field renaming.**

Overview

Field codes will be automatically added to your expression when you insert them anywhere using the expression parser **field code injector.**

Field codes for Jira **standard** or **system fields** will display the attribute in a legible form like `%{issue.summary}`.

All **custom fields** will be notated like `%{issue.cfnnnnn}` where **nnnnn** contains the Jira **custom field ID**.

Once an expression has been saved, the real name will be displayed in the configuration element.

The purpose of using the **`cfnnnnn`** notation is quite simple - **custom fields can be renamed** .

Your browser does not support the HTML5 video element

Field code notation

Depending on the **context** in which they are being used, field codes will contain a **prefix** following this **notation** : `{origin.field}`

What is a context?

A context basically determines where JWT will pull data from. Available **contexts** (or `origins`) in JWT are:

Context	Example	Description
`issue`	`%{issue.description}`	The field **value** will be retrieved from the **issue** that currently being processed by a workflow function or automation rule. The most commonly used context in JWT.
`parent`	`%{parent.summary}`	The field **value** will be retrieved from the **parent** of the **issue** that is processed by a workflow post function or an automation rule. Only valid for sub-tasks.

`seed`	`%{seed.issue.summary}`
	
	`%{seed.text}`
	
	`%{seed.number}`
		The field **value** will be retrieved from the **element** currently being **processed by** a workflow function or automation rule that is capable of analyzing multiple elements (e.g. Create issue post function or the Create issue action).
		
		Elements can be:
		
		• **issues**
		• **texts**
		• **numbers**
		
		depending in your configuration. Read more about Seeds.

`action`	`%{action.status}`	The **value** will be retrieved from the response of the executed remote action. Currently only available in the Execute remote action post function.
`function`	`filterByPredicate(subtasks(), {function.issue.dueDate} != null)` This example returns a list of all **sub-tasks** of the current issue that have a **due date** set.	The field **value** will be retrieved from **issue(s)** returned by some JWT expression parser functions. Mostly these are functions that return an issue list (e.g. subtasks()). Some functions iterate (loop) over **all elements** returned by a list. As soon as **each element** of the list is being processed, **this element** is the temporary **context**.
`created.parent`	`%{created.parent.summary}`	The field **value** will be retrieved from the **new parent issue** of a **sub-tasks** being created in a workflow post function. Currently only available in the Create issue post function and only valid for **sub-tasks**.

Additional contexts for automation rules

An issue is tied to a workflow. This is why most field codes in JWT workflow functions have their issue context. Automation rules are not tied to individual issues. This is why sometimes it is necessary to define their context separately.

These additional contexts are available for automation rules:

Context	Description	Example
`trigger`	The **issue**, **user**, **version**, **component or project event** that **triggers** the execution of the **rule**.	**%{trigger.issue.description}** The **description** of the issue **triggering** the automation rule.
`selector`	The **issue** currently being **processed by a selector** (e.g. an issue returned by a JQL query).	**%{selector.issue.cf10021}** The value of the **custom field** with the ID 10021 from the issue currently being **processed by a selector**.

The **prefix** is a referential part of the field code and **will be inserted into the expression** whenever you select a field from a dropdown list (as shown below).

Your browser does not support the HTML5 video element

The additional contexts can be used **in combination** with the **standard** contexts (e.g. parent, seed).

Example: **%{trigger.parent.summary}**

Find a full list of automation-only field code here: Field codes (automation-only)

Number vs. text field code notation

Field codes must always be enclosed by **curly brackets {}** but if they are used for **text-strings**, the brackets must be preceded by **a percent sign %** .

- **Numeric fields** can be referenced as numbers using the following notation: **{issue. somenumberfield }.** (ⓘ no preceding **%** sign)
  - If a field is not set or does not return a number (e.g. a text field), it is evaluated to **`null`** .
- **Text fields** : Any field type or data type can be transformed to text, so **any field** can be referenced as a **text-string value** using the following notation: **%{issue.somefield}.**
  - If a field has no value (**`null`)** , an **empty text** will be returned.
- **Cascading Select** fields are treated as text fields, where **i** is the index that represents the level to be accessed. (**i = 0** is used for base level) are notated as **%{issue.somefield.i}**

A complete list of all available data types can be found here.

Available field codes

Check out the following pages to familiarize yourself with the different **types** of field codes.

Field codes (read / write)

Field codes (read-only)

Field codes (write-only)

Field codes (automation-only)

Seeds

Field name	Field code	Type	Example output	Labels
Action response	%{action.response}	READ-ONLY	{"self": "https://your-domain.atlassian.net/jira/rest/api/3/project/10042","id": 10010,"key": "PROJ"}	
Action response details	%{action.response.JMESPath}	READ-ONLY	PROJ	
Action status	%{action.status}	READ-ONLY	200	
Add to parent's total time spent (minutes)	No field code	WRITE-ONLY		
Add to time spent (minutes)	No field code	WRITE-ONLY		
Affects version/s	%{issue.versions}	READ / WRITE	1.0, 1.1	
Affects version/s with details	%{issue.versions.details}	READ-ONLY	1.0 # First release # RELEASED ON 28/Mar/22 12:00 AM # ARCHIVED	
Assignee	%{issue.assignee}	READ / WRITE	admin.istrator	
Assignee's email	%{issue.assignee.email}	READ-ONLY	user@example.com	
Assignee's full name	%{issue.assignee.displayName}	READ-ONLY	Bob Smith	
Attachments	%{issue.attachments}	READ-ONLY	file1.txt, readme.pdf, screenshot.png	

Attachments (current attachments will be replaced)	`No field code`	WRITE-ONLY	
Attachments (only new attachments will be added)	`No field code`	WRITE-ONLY	
Attachments with details	`%{issue.attachments.details}`	READ-ONLY	file1.txt (text/plain, 5.14 KB), readme.pdf (application/pdf, 179.8 KB), screenshot.png (image/png, 5.449 KB)
Available target statuses	`%{issue.status.achievable}`	READ-ONLY	In Progress, Resolved, Closed
Available transitions	`%{issue.transition.achievable}`	READ-ONLY	Start Progress, Resolve Issue, Close Issue
Component/s	`%{issue.components}`	READ / WRITE	Web Site, Authenticator, Statistics
Component default assignee	`%{trigger.component.defaultAssignee}`	READ-ONLY	admin.istrator
Component description	`%{trigger.component.description}`	READ-ONLY	This is a component
Component ID	`%{trigger.component.id}`	READ-ONLY	10000
Component lead	`%{trigger.component.lead}`	READ-ONLY	admin.istrator
Component leads	`%{issue.components.leads}`	READ-ONLY	admin, d.smith
Component name	`%{trigger.component.name}`	READ-ONLY	Customer Relationship Management Component
Creator	`%{issue.creator}`	READ-ONLY	admin.istrator
Creator's email	`%{issue.creator.email}`	READ-ONLY	user@example.com
Creator's full name	`%{issue.creator.displayName}`	READ-ONLY	Bob Smith
Current date and time	`%{system.currentDateTime}`	READ-ONLY	19/Mar/20 1:38 PM
Current user	`%{system.currentUser}`	READ-ONLY	admin.istrator
Current user's email	`%{system.currentUser.email}`	READ ONLY	user@example.com
Current user's full name	`%{system.currentUser.displayName}`	READ-ONLY	Bob Smith
Customer Request Type Name	`%{issue.customerRequestTypeName}`	READ-ONLY	
Date and time of creation	`%{issue.created}`	READ-ONLY	19/Mar/20 1:38 PM
Date and time of last status change	`%{issue.lastStatusChange}`	READ-ONLY	19/Mar/14 1:38 PM
Date and time of last update	`%{issue.updated}`	READ-ONLY	19/Mar/14 1:38 PM

Date and time of resolution	%{issue.resolutionDate}	READ-ONLY	19/Mar/20 1:38 PM
Description	%{issue.description}	READ / WRITE	Take your Jira to the next level by using JWT!
Due date	%{issue.dueDate}	READ / WRITE	19/Mar/20
Environment	%{issue.environment}	READ / WRITE	Data Center
Execute transition	No field code	WRITE-ONLY	
Execute transition (delayed execution)	No field code	WRITE-ONLY	
Fix version/s	%{issue.fixVersions}	READ / WRITE	1.0, 1.1
Fix version/s with details	%{issue.fixVersions.details}	READ-ONLY	1.0 # First release # RELEASED ON 28/Mar/22 12:00 AM # ARCHIVED
Issue key	%{issue.key}	READ-ONLY	CRM-25
Issue status	%{issue.status}	READ / WRITE	Open
Issue status (delayed writing)	No field code	WRITE-ONLY	
Issue status category	%{issue.status.category}	READ-ONLY	Done
Issue type	%{issue.issueType}	READ-ONLY	Bug
Jira base URL	%{system.baseUrl}	READ-ONLY	https://www.atlassian.net/jira
Keys of linked issues	%{issue.links}	READ-ONLY	CRM-13, HR-12, SDESK-45
Keys of sub-tasks	%{issue.subtasks}	READ-ONLY	CRM-23, CRM-26, CRM-31
Labels	%{issue.labels}	READ / WRITE	web customer java mobile
Last comment	%{issue.lastComment}	READ / WRITE	Take your Jira to the next level by using xApps!
Last comment's visibility restriction	%{issue.lastComment.visibility}	READ / WRITE	jira-administrators
Last commenter	%{issue.lastComment.author}	READ-ONLY	admin.istrator
New comment	No field code	WRITE-ONLY	
New comment (sends email notifications)	No field code	WRITE-ONLY	
New labels	No field code	WRITE-ONLY	
New watchers	No field code	WRITE-ONLY	
Number of affects version/s	{issue.versions.count}	READ-ONLY	42
Number of attachments	{issue.attachments.count}	READ-ONLY	3

Number of fix version/s	`{issue.fixVersions.count}`	READ-ONLY	2
Number of labels	`{issue.labels.count}`	READ-ONLY	3
Number of linked issues	`{issue.links.count}`	READ-ONLY	3
Number of sub-tasks	`{issue.subtasks.count}`	READ-ONLY	3
Number of votes received	`{issue.votes}`	READ-ONLY	3
Original estimate (minutes)	`{issue.originalEstimate}`	READ / WRITE	120
Previous issue status	`%{issue.status.previous}`	READ-ONLY	Closed
Previous issue status category	`%{issue.status.previousCategory}`	READ-ONLY	Done
Priority	`%{issue.priority}`	READ / WRITE	Blocker
Project category	`%{issue.project.category}`	READ-ONLY	Archive
Project category (trigger)	`%{trigger.project.category}`	READ-ONLY	Archive
Project description	`%{issue.project.description}`	READ-ONLY	This is the CRM project.
Project description (trigger)	`%{trigger.project.description}`	READ-ONLY	This is the CRM project
Project ID	`%{issue.project.id}`	READ-ONLY	10001
Project key	`%{issue.project.key}`	READ-ONLY	CRM
Project key (trigger)	`%{trigger.project.key}`	READ-ONLY	CRM, HR, SDESK
Project lead	`%{issue.project.lead}`	READ-ONLY	admin.istrator
Project lead's email	`%{issue.project.leadEmail}`	READ-ONLY	user@example.com
Project lead's email (trigger)	`%{trigger.project.leadEmail}`	READ-ONLY	user@example.com
Project lead's full name	`%{issue.project.lead.displayName}`	READ-ONLY	Bob Smith
Project lead's full name (trigger)	`%{trigger.project.leadDisplayName}`	READ-ONLY	Bob Smith
Project lead (trigger)	`%{trigger.project.lead}`	READ-ONLY	admin.istrator
Project name	`%{issue.project.name}`	READ-ONLY	Customer Relationship Management
Project name (trigger)	`%{trigger.project.name}`	READ-ONLY	Customer Relationship Management
Project type	`%{issue.project.type}`	READ-ONLY	Service

Project URL	`%{issue.project.url}`	READ-ONLY	https://www.decadis.de/x
Project URL (trigger)	`%{trigger.project.url}`	READ-ONLY	https://www.decadis.de/x
Remaining estimate (minutes)	`{issue.remainingEstimate}`	READ / WRITE	120
Remaining issues in project	`%{issue.remainingIssuesInProject}`	READ-ONLY	CRM-1, CRM-2, CRM-3, CRM-4
Remote links	`%{issue.remoteLinks}`	READ-ONLY	`https://www.first-example.com`, `https://www.second-example.com`
Reporter	`%{issue.reporter}`	READ / WRITE	admin.istrator
Reporter's email	`%{issue.reporter.email}`	READ-ONLY	user@example.com
Reporter's full name	`%{issue.reporter.displayName}`	READ-ONLY	Bob Smith
Resolution	`%{issue.resolution}`	READ / WRITE	Resolved
Security level	`%{issue.securityLevel}`	READ / WRITE	Classified
Sprint completion date	`%{issue.sprintCompletionDate}`	READ-ONLY	2020-02-17 07:46
Sprint end date	`%{issue.sprintEndDate}`	READ-ONLY	2020-02-17 07:46
Sprint ID	`%{issue.sprintId}`	READ-ONLY	1
Sprint start date	`%{issue.sprintStartDate}`	READ-ONLY	2020-06-08 12:10
Summary	`%{issue.summary}`	READ / WRITE	This is my summary
Team name	`%{issue.teamName}`	READ-ONLY	Team HR
Temporary number	`{issue.temporaryNumber1}` ... `{issue.temporaryNumber5}`	READ / WRITE	10
Temporary text	`%{issue.temporaryText1}` ... `%{issue.temporaryText5}`	READ / WRITE	This is a text stored temporarily
Total time spent (minutes)	`{issue.timeSpent}`	READ / WRITE	120
User directory ID	`%{trigger.user.directoryId}`	READ-ONLY	10001
User directory user	`%{trigger.user.directoryUser}`	READ-ONLY	admin.istrator
User email	`%{trigger.user.email}`	READ-ONLY	user@example.com
User full name	`%{trigger.user.fullName}`	READ-ONLY	Bob Smith
User ID	`%{trigger.user.id}`	READ-ONLY	10000

User is active	`%{trigger.user.isActive}`	READ-ONLY	true, false
User key	`%{trigger.user.key}`	READ-ONLY	admin.istrator
User name	`%{trigger.user.name}`	READ-ONLY	admin.istrator
Version archived	`%{trigger.version.archived}`	READ-ONLY	true, false
Version description	`%{trigger.version.description}`	READ-ONLY	This is version 1.0
Version ID	`%{trigger.version.id}`	READ-ONLY	10000
Version name	`%{trigger.version.name}`	READ-ONLY	Version 1.0
Version project	`%{trigger.version.project}`	READ-ONLY	CRM
Version project ID	`%{trigger.version.projectId}`	READ-ONLY	10000
Version released	`%{trigger.version.released}`	READ-ONLY	true, false
Version release date	`%{trigger.version.releaseDate}`	READ-ONLY	2020-02-17 07:46
Version sequence	`%{trigger.version.sequence}`	READ-ONLY	1
Version start date	`%{trigger.version.startDate}`	READ-ONLY	2020-02-17 07:46
Watchers	`%{issue.watcher}`	READ / WRITE	username1, username2, username3
Workflow scheme	`%{issue.workflowScheme}`	READ-ONLY	Global scheme

If you still have questions, feel free to refer to our support team.