

# Calculate custom sequence numbers

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### Use case

In this example, a custom identifier "**Approval Code**" is added to issues by using a project property and different custom fields.

The code that will be created is a combination of a specific number (sequence number), the fiscal year (custom field), and the abbreviation of a department.

Configuration items needed:

- Project property "**sequenceNumber**"
- Custom Text Field "**Department**"
- Custom Text Field "**Fiscal Year**"
- Custom Text Field "**Approval Code**"

The final **approval code** might look something like this:

2021/DEV/023



### Prerequisites

In order to make this use case working, the project property **sequenceNumber** has to be set initially.

## Set up the project property

1

Head over to the project you want to create the project property in.

2

Head over to **Project settings Details**

3

Add the following text to the **project description**:

```
{sequenceNumber=1}
```



## Configuration

1

### Set the approval code

1

Add the [Update or copy field values](#) post function to the desired transition or create a new transition.

2

### Target issue

Choose **Current issue**

3

### Fields

1

#### Field

Select the field you want to write the **approval code** to.

2

#### Value

Choose **Set field value manually**

3

#### Expression

Add the following expression with mode set to **Advanced text**:

```
%{issue.cfaaaaa} + "/" + toUpperCase(substring(%{issue.cfbbbbb}, 0, 3)) + "/" + substring("000", length(projectProperty("sequenceNumber")), 3) + projectProperty("sequenceNumber")
```

## more info...

The following field codes are used:

- `%{issue.cfaaaaa}` is the field code for the field **Fiscal year**.
- `%{issue.cfbbbbb}` is the field code for the field **Department**.

The department will be returned in the following format:

Value in field "Department"	Value returned by the expression
Development	DEV

Sales	SAL
Marketing	MAR

The expression will only grab the first three letters and write them in upper case by using `substring()` and `toUpperCase()`.

In our case we want the **sequenceNumber** to be a 3-digit number. Therefore the following expression is used:

```
substring("000", length(projectProperty("sequenceNumber")), 3)
```

It takes the length of the **sequenceNumber** and dynamically adds zeros to fill up the sequenceNumber to a 3-digit number.

**Example:**

"sequenceNumber" project property	Added zeros	Output
1	2	001
10	1	010
100	0	100

The used functions are `substring()`, `length()` and `projectProperty()`.

The final **approval code** might look something like this:

```
2021/DEV/023
```

4

#### Field

In addition, select the **Temporary number 1** field.

5

#### Value

Choose **Set field value manually**

6

#### Expression

Enter the following expression:

```
toNumber(projectProperty("sequenceNumber")) + 1
```

2

## Update the "sequenceNumber" project property

1

Add the [Set or create JWT project property](#) underneath the previous post function.

2

### Mode

Choose **Create the property and assign the value**

3

### Property key

Enter

sequenceNumber

4

### Property value

Enter

%{issue.temporaryNumber1}



## Screenshots



## Related use cases

Use case	JWT feature	Workflow function	Parser functions	Label
<a href="#">Assign issue to the default user of a role</a>		<a href="#">Assign to project role</a>		
<a href="#">Calculate custom sequence numbers</a>		<a href="#">Update or copy field values</a> <a href="#">Set or create JWT project property</a>	<a href="#">toUpperCase()</a> <a href="#">substring()</a> <a href="#">length()</a> <a href="#">projectProperty()</a> <a href="#">toNumber()</a>	

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Set custom IDs for each issue



Set or create JWT project property

Update or copy field values

length()

projectProperty()

substring()

toNumber()

year()

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If you still have questions, feel free to refer to our [support](#) team.