

# PE: Custom KPI View

Custom KPI Views are additional KPIs that can be displayed in the Process Explorer.

You should already be familiar with the default [KPIs of the Process Explorer](#), which are available by default in all SAP Process Mining by Celonis 4.2 installations.



Choose the KPI views in the same place where you switch between the frequency Process Explorer and the Throughput Time Explorer:

To add a custom KPI, choose [Add Custom KPI View](#) at the button of the drop-down menu, listing all existing KPIs.

## blocked URL

In a KPI view, the analyst has to define **activity KPIs** and **connection KPIs**.

[Create KPI](#)

Add a new KPI view with:

You will see all possible configuration options in the right field.

## Configure Custom KPIs

### Activity KPIs

The screenshot shows the 'Activity KPIs' configuration screen. A 'NEW KPI' card is open with 'Title: KPI View 1'. The 'ACTIVITY KPIs' section contains a red box around the 'Add' button. Other sections include 'FORMATTING' and 'THRESHOLDS'.

### Connection KPIs

The screenshot shows the 'Connection KPIs' configuration screen. A 'NEW KPI' card is open with 'Title: KPI View 1'. The 'CONNECTION KPIs' section contains a red box around the 'New connection KPI' button. Other sections include 'FORMATTING' and 'THRESHOLDS'.

Click on the "Add" button to add a custom activity KPI.

Click on the "New connection KPI" button to create a new connection KPI.

Enter your [PQL query](#) in the "Edit Formula" field on the left side. You can make use of the KPI Builder, in order to prevent errors that may arise through misspelling.

The screenshot shows the 'Process explorer KPI editor' with an 'EDIT FORMULA' field containing: `IF(USER_TYPE = 'CEL_P2P_ACTIVITIES', 'USER_TYPE' = 'Batch', THEN 1.0 ELSE 0.0 END)`. The 'KPI BUILDER' panel shows a table with columns 'CEL\_P2P\_ACTIVITIES' and 'USER\_TYPE'. The 'EXAMPLES' panel shows examples for 'Last timestamp' and 'Automatisation'.

The screenshot shows the 'Process explorer KPI editor' with an 'EDIT FORMULA' field containing: `MAX(ABS(DATEDIFF(MAX_SOURCE('CEL_P2P_ACTIVITIES', 'EVENTTIME'), TARGET('CEL_P2P_ACTIVITIES'))))`. The 'KPI BUILDER' panel shows a table with columns 'TARGET\_ACTIVITY' and 'CEL\_P2P\_ACTIVITIES'. The 'EXAMPLES' panel shows examples for 'Duration' and 'Automatisation'.

This sample activity KPI will show the automatisation rate for each activity, given that there is a generic user in the database (called 'batch') that is used when a process has been automated.

This sample connection KPI will provide the maximum duration of any case passing the connection (= the maximum throughput time).

The following PQL query has been used:

#### Automatisation Rate

```
AVG(CASE WHEN "_CEL_P2P_ACTIVITIES"."USER_TYPE" =  
'Batch' THEN 1.0 ELSE 0.0)
```

If this activity has been automated, the KPI compiler will return 1.0, if not 0.0. After an iteration over all activities, this query will return a value between 0.0 and 1.0 for all activities.

You can furthermore **name** your formula, and define **formats** and **units**:

#### FORMULA OPTIONS

##### Formula title

[Translate](#)

##### Predefined formats

##### Formatting formula

[Documentation](#)

##### Units

[Done](#)

Click on [Done](#) to proceed.



#### Multiple KPIs

For every custom KPI view, you can add multiple activity KPIs and/or connection KPIs.

Simply repeat the instructions above.

## Threshold value

To allow further restrictions on your KPI, you can add Threshold values.

Your activities or your connections can be colored according to definable thresholds.

Let's color all activities, that have an automatisation rate (see above) > 0.5 green.

#### FORMATTING

Format according to

#### THRESHOLDS



if

Greater than



Save your threshold setting with

Add threshold

**Multiple Thresholds**

You can add multiple thresholds.

## Reverse activity size

By default, activity nodes are scaled according to their KPI values. Larger KPI values will grow the activity node, smaller KPI values will decrease their size.

Reverse activity size

With the checkbox , you can invert this scaling. Large KPI values will decrease the node's size, smaller KPI values will increase its size.

## Title & Format

You can **name your new custom KPI view**. This name will be shown in all process explorers throughout this analysis document.

Title

My First KPI



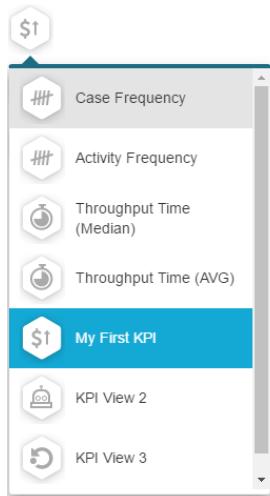
Furthermore, you can select a symbol for your KPI view:

[blocked URL](#)

Done

Save your changes with

Now your process explorer has more KPIs!



**Useful activity KPIs could be:**

**Last Timestamp**

```
MAX(ROUND_MONTH("EVENTLOG"."EVENTTIME"))
```

**Automatisation**

```
AVG(CASE WHEN "EVENTLOG"."USERTYPE"='Batch' THEN 1.0 ELSE 0.0 END)
```

**Value Flow**

```
ROUND(SUM("EVENTLOG"."ACT_Wert"),0)
```

**Useful connection KPIs could be:**

**Duration**

```
AVG(1.0*DATEDIFF(dd, SOURCE("EVENTLOG"."EVENTTIME"), TARGET("EVENTLOG"."EVENTTIME")))
```

**Automatisation**

```
AVG(CASE WHEN SOURCE("EVENTLOG"."USER_TYPE") LIKE 'Batch' THEN 1.0 ELSE 0.0 END)
```

**Value flow**

```
AVG(1.0*DATEDIFF(dd, SOURCE("EVENTLOG"."EVENTTIME"), TARGET("EVENTLOG"."EVENTTIME")))
```