

Statistics Summary Transformations

A StatisticsSummary transformation will compute the configured statistic function for the input values to get one result value (the summary). This uses only the input values within the relativeViewPeriod that is defined in the timeSeriesSet of the output variable - unless the readWriteMode of the input timeseries is set to 'read complete forecast'. The result output value is stored at T0 (time zero) in the output timeSeries.

The available statistic functions are:

- count
- countFlags
- kurtosis
- max
- mean (only nonequidistant as input)
- median
- min
- percentileExceedence
- percentileNonExceedence
- quartile
- rootMeanSquareError
- rsquared
- skewness
- standardDeviation
- sum
- variance

Below config example identifies the maximum of a timeseries. Note that the output timeseries is a single value at T0 only. The time step of the output timeseries must be nonequidistant.

```
<transformation id="Identify_max">
  <statisticsSummary>
    <max>
      <inputVariable>
        <variableId>P_stations_1h</variableId>
      </inputVariable>
      <outputVariable>
        <variableId>P_max</variableId>
      </outputVariable>
    </max>
  </statisticsSummary>
</transformation>
```