

# Complex Event Processing

BigDataStack Software Component developed by Technical University of Madrid

The Complex Event Processing (CEP) is in charge of processing flows of data on the fly without storing the data.

## Initial TRL

TRL 2

## Final TRL

TRL 3

## End Users

Any application that needs to process continuous (infinite) flows of data without storing them.

## Key Features and Benefits

It runs in a distributed system made out of heterogeneous devices (servers, laptops, Raspberry Pi). The CEP takes into consideration the resources of the device in order to deploy and run the queries and where data is generated to minimize network usage and latency.

## Standards involved in the development of the component

Not applicable

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## Implementation in BigDataStack Use Cases

Real-time shipping use case

## How can the BigDataStack component contribute to Standardization foundations or initiatives?

Not Expected

## Differentiators from competitors in the market

Deployment in a heterogeneous device with very limited resources. The run time takes into consideration those resources and can move queries dynamically to other nodes to improve performance. Dynamic reconfiguration of the queries is performed.

