CoherentPaaS

Coherent and Rich PaaS with a Common Programming Model

ICT FP7-611068

Table Oriented Cloud CEP Centralized Implementation

D7.2

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23.02.2015	Valerio Vianello	Draft	0.2	First internal draft
03.03.2015	Ricardo Jiménez	Draft	0.3	Internal draft
06.03.2015	Marta Patiño	Draft	0.4	Internal draft
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30.3.2015	Marta Patiño	Final	1	Final changes

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More information

Additional information and public deliverables of CoherentPaaS can be found at: http://coherentpaas.eu

1. Executive Summary

This is a prototype deliverable. It provides details on the centralized implementation of the CoherentPaaS Complex Event Processing engine (CEP) and Query Compiler. CoherentPaaS CEP is a parallel distributed engine able to read and write raw data from/to external data storages and to materialize the results of continuous queries in such data storages. A complete description of the CoherentPaaS architecture can be found in deliverable "D7.1 - Table-oriented cloud CEP design" [1].
The CoherentPaaS CEP executes continuous queries that are acyclic graphs of streaming operators. This deliverable focuses on the description of the centralized implementation of the streaming operators. The deliverable also describes the implementation of the query compiler tool needed to ease the creation of continuous queries.