



CoherentPaaS

Coherent and Rich PaaS with a
Common Programming Model

ICT FP7-611068

Use Cases Implementation (final version)

D9.4
(Prototype)

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31.7.2015	R. Pau	Draft	0.2	Sparsity contribution
31.7.2015	P. Valduriez	Draft	0.3	INRIA contribution
27.8.2015	V. Spitadakis	Draft	0.4	NEUROCOM Contribution – Section 2
5.9.2015	V. Spitadakis, G. Kotsis	Draft	0.5	NEUROCOM Contribution – Section 3
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More information

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

1 Executive Summary

This deliverable is a prototype, comprising of five software implementations for the corresponding five use cases which utilize CoherentPaaS in order to implement a desired functionality over a multi datastore environment, and prepare the necessary interfaces for the forthcoming validation that will take place at the ending phase of the project..

The prototype includes :

- a. The CDR analytics use case which involves 8 queries that require 4 different data stores: Monetdb, Activepivot, LeanXcale, SparkSee. A user interface is facilitating user's interaction, synthesis and execution of queries, and visualization of results
- b. The Vehicle telematics use case which involves CEP and 4 queries. Here, real-time (low latency) and high throughput are the main challenges over a high volume and rate of events. Again, a user interface is visualizing a dashboard to view results and alarming situations. Monetdb and LeanXcale are utilized.
- c. The media planning use cases which involve CEP and 2 queries, as well as 4 data stores: LeanXcale, MongoDB, Sparksee and key-value store (Eutropia)
- d. The network monitoring platform adapted over CoherentPaaS to CEP, LeanXcale and Monetdb; various types of queries including drill-to-detail, aggregates and collection queries are implemented.
- e. The media planning use cases which involves 2 queries that require 4 data stores: LeanXcale, MongoDB, Sparksee and key-value store (Eutropia)

All CoherentPaaS components have been in use in order to realise the implementation.