



CoherentPaaS

Coherent and Rich PaaS with a
Common Programming Model

ICT FP7-611068

Use Cases Implementation (initial version)

D9.3

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More information

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

1 Executive Summary

This document is the first (initial) version of the implementation deliverable of the CoherentPaaS use cases. Its main aim is to illustrate the level of progress for each use case, the implementation task items and the associated timeplan, as well as to describe the way that each data store is used within a use case and the way that CoherentPaaS – specific components are utilized. Each use case provider also described the tools and methods that it employs in order to realize the use case and the necessary adaptations.

Queries adaptation and synthesis, their validation and finally their integration into application and their performance improvement are the major implementation challenges. Queries through CloudMdSQL and CEP operations are the items of CoherentPaaS which are being used and tested by the development teams of the use case providers.

The implementation is ongoing, and the document cannot now describe all implementation aspects; it is evident that there are still development tasks which are not complete and part of the described and developed items might not be already fully validated even at programmer's level. Apart from the CloudMdSQL development and the integration of X-ray monitoring code, the complete implementation of some use cases engage also the need for primitive, supplementary user interfaces which will be necessary in order to assess and apply the new architecture onto variant, realistic usage scenarios; this is especially important for the validation phase. Data generation and adaptation is also necessary for certain use cases.

A wide portfolio of CoherentPaaS items is now under the focus of use case development. The list below, mentions the most important ones:

- PROJECTIONS / JOINS / AGGREGATES / UNIONS / SORTINGS
- The CEP operations and components
- Nested CloudMdSQL queries
- Parameterized queries
- Communication with all wrappers
- The CQE and its JDBC connector.
- The Xray server

For each use case, we describe the steps reached, the current (M24) status and the next tasks that will follow and are currently progressing.

Note: It is assumed that the reader of this document has become familiar to the use cases design as it has been described within D9.2 Use Cases Design.