**Fiche ADR**

ARC : 6

Axe thématique de l’ARC : Mondes numériques pour l’humain et la société : conception, comportements et usages

Titre du projet de thèse : Trusted SLA-Guided Data Integration on Multi-Cloud Environment

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Établissement gestionnaire de la subvention : Université Jean Moulin Lyon 3

Partenaires (académiques et socio-économique) : LIRIS and LIG

Type d’ADR : Allocation ARC 6 2014

Objectif du projet (5 lignes) :

The objective is to propose data integration strategies adapted to the vision of the economic model of the cloud. The originality of our approach consists in guiding the entire data integration solution taking into account (i) user preferences statements; (ii) SLA contracts exported by different cloud providers; and (iii) several QoS measures associated to data collections properties (for instance, trust, privacy, economic cost).

Méthodologie utilisée (5 lignes) :

We build the corpus of the state of the art applying the systematic mapping methodology. As result, we have not find any other approach that combines SLA and data integration solution in the cloud. Moreover, in order to better understand the requirements and how the integration is performed, we formalized and developed a query rewriting algorithm to this purpose. Currently, we have been working on the SLA model and schema to data integration, and on a scenario description.

Résultats attendus (5 lignes) :

The expected results are (i) a state of the art concerning SLA in cloud, and on requirements to data integration in the cloud; (ii) to propose a data integration approach that can be adapted to multi-cloud environments; (iii) the approach may generate automatically an integration SLA and a derived SLA at real time during a integration process (iv) describe and implement an experiment that can be used for testing the proposed approach; and (v) validate the it in context of energy consumption.