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Application of Semantic Integration Methods for Cross-agency Information Sharing

Information sharing has become the key enabler for cross-agency interaction. Heterogeneous environment is inherent for the public sector and requires the application of integration methods, which will guarantee the achievement of unambiguous meaningful interpretation of data. The paper gives a brief review of international approaches to the achievement of semantic interoperability: built on XML-based models implementation (USA, NIEM) and the use of semantic integration methods (EU, SEMIC). The authors compare three methods: classic interaction using web clients; the application of a unified data model that requires the adjustment of adapters and the implementation of a domain data model, common to all the participants of information exchange in distributed systems. The comparison was made on the example developed within the project of Plekhanov Russian University of Economics named the "Center of semantic integration".

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