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***SBER and his new Business Architecture Solution***

**Abstract**

The technological solution of today's Swiss Business and Enterprise Register (SBER) dates back to the year 2000. Like many other business registers, the SBER refers to multiple data sources and has multiple statistical and administrative users. Gradually, the current solution, which was very substantial and sophisticated at the time it was implemented, reaches its limits both from a data management and technological point of view. Today, tailor-made accesses to the data system (.txt files, xml, web services, database links, etc.) are offered to different partners. This approach leaves room for improvement primarily in terms of work and cost-efficiency as well as data quality.

To meet the challenges ahead, FSO has decided to conduct a reengineering of the SBER's software infrastructure in order to modernize and optimize the IT system. The project focuses on aspects such as data management, business architecture and technology as well as data storage and data sharing.

The objective is to create an integrated system based on a service-oriented architecture (SOA) that satisfies all business and technical requirements and eliminates today's weaknesses. An important part of the project is the implementation of a "Data Integration Service" which allows to centralize every mutation announcement from internal or external partners.

This service will be mainly used for two purposes. Firstly, to act as a service bus that distributes the information between different services or registers. Secondly, to load, process and validate data received from partners in order to update the SBER's content.

To split and reduce the complexity of business processes the new integrated system will rely on harmonized methods and is designed according to separation of concerns principles. The benefits of this approach are, amongst others, the enhancement of automatic validation rules and the traceability of business transactions.