Globalised economies are characterised by an emergent decentralisation that aims to increase revenue figures by reducing production and maintenance costs. Collaboration is the key in this new era where organisations are governed by the market law of supply and demand and the need to efficiently respond to the evolution of production and maintenance process as well as to changing customer requirements and expectations. Unfortunately, the transformation of business process models into an ICT infrastructure that implements the enterprise information systems required to support them is, in many cases, not sufficiently formalized. This poster presents an experience on gathering business needs in business models adapted to the business expert language and translating these needs into a Service Oriented Architecture (SOA) in a systematic way. The poster introduces the current situation highlighting three interoperability problems:

- Organisations do not use a standard, unified and widely adopted business process definition language. Organisations want a common understanding of the process where they are involved from different perspectives.
- Information systems are implemented to address specific requirements, ignoring future integration needs by using proprietary formats, and ad-hoc communication strategies and protocols.
- Information systems do not, clearly, support the business processes. There is a gap between business process models and their information systems implementations.

The approach shown in this poster is based on the usage of the SOA paradigm from a model driven point of view: a Model Driven Service Oriented Architecture (MDSOA) framework. Based on the MDA specification we have identified a metamodel for each of the three abstraction levels:

- POP* (Process, Organisation, Product) [2] is selected as the metamodel to represent and exchange business processes. POP* is the Unified Enterprise Modelling Language (UEML) successor. POP* metamodel represents the starting point.
- PIM4SOA (Platform Independent Model for Service Oriented Architecture) [1] is a metamodel to represent service, process, information and quality of service elements.
- WSDL (Web Service Description Language) and BPEL (Business Process Execution Language) are platform specific languages.

Bibliography