Abstract

Due to the need for information exchange between enterprises and different formats and standards in each organization, interoperability and flexibility between enterprises are difficult. Hence, a space needed to standardize documentation, transaction Choreographies between international enterprises is felt. In such circumstances, this space is called Collaboration space.

To create a fair, non-repudiation and secure collaboration space, trusted third party (TTP) is used to facilitate collaboration and interaction between enterprises. Instead of any of the partners interact with each other; they can communicate with a TTP. One of the new topics in the IT and business alignment is enterprise interoperability in various business domains. One of the best ways to identify business domains is business modeling and one of the key tools in the modeling business is business domain ontologies. Ontologies introduce the core concepts that exist in some domain of interest and the relationships that hold among them and they can be used in modeling of business domains. In a collaboration space and for enterprise interoperability, each business domain according to their needs, uses the specific ontology to create models of their business. In the field of business domains there are three ontologies to model business. Our focus in this research has been the development of the REA ontology.
Introducing a Domain Ontology based on the Role of Trusted Third Party (TTP) in inter-Organizational Collaboration

The project aims to provide ontology for modeling collaboration space concepts based on a TTP in the interoperability of enterprises. To collaboration space between enterprises has established, the public processes, border collaboration and the main concepts of the domain ontology associated with the related ontology must be identified. The collaboration space between enterprises is a heterogeneous space in terms of technology and in terms of ontology. Also in this space some issues are important such as authentication of partners in domain, guarantee of limited access control of partners to resources, non-repudiation of partners, recovery of lost information and translation of different domains. These characteristics are achieved through trusted third parties. In order to implement a TTP, a domain-specific ontology to describe the collaboration space is needed.

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Index Terms

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Keywords
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REA