Title : Preserving privacy in service-oriented information systems
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Abstract

With the constant proliferation of information systems around the globe, the need for decentralized and scalable data sharing and integration mechanisms has become apparent more than ever in a wide range of applications. Literature on information integration across autonomous entities has tacitly assumed that the data on the side of each entity can be revealed and shared to other entities. On the other hand, real life data sharing scenarios in many application domains like healthcare, ecommerce market, e-government show that data integration and sharing are often hampered by legitimate and widespread data privacy concerns. Indeed, protecting the individual data may be a prerequisite for organizations to share their data in open environments such as the Web. Our main objective in the PAIRSE project is the definition of prevention security mechanisms to protect for instance confidential health care data when these data are distributed over several peers. One dimension of confidentiality protection is related to private personal data, i.e. nominative data. Thus, a central issue is the specification of privacy policy to protect these nominative data. In particular, we have to take care of the compliance of the policy specification with respect to standards and regulations. It is then necessary to define and design protection mechanisms to enforce data privacy. In this project, we shall mainly focus on designing dedicated privacy-preserving access control mechanisms.

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