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SWAD-Europe: WP11.2: Framework for Security and Trust Standards: Experiments and Implementations

Abstract:
    The goal of this deliverable is to explore the interaction between various security- and trust-related mechanisms, and to identify enough of the purpose and content of these existing standards to indicate how they might be integrated in a Semantic Web trust and policy management framework. In this deliverable, we give further progress on the work, and some sample implementations.

Introduction

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The scope of this deliverable is extremely wide and accordingly, the deliverable is divided into several major parts, set out in this introductory document.

Vocabularies and Architecture for Implementing

Trust in the Semantic Web

In D11.2, we discuss frameworks and scenarios for Trust in the Semantic Web. We present a RDF vocabularies and an architecture to implement trust on the Semantic Web.

- ☞Vocabularies and Architecture for Implementing Trust in the Semantic Web
- ☞RDF Schema for Trust Statements
- ☞OWL Ontology for Trust Statements
- ☞RDF Schema for Recommendations and Subjective Logic
- ☞RDF Schema for Trust Metrics
- ☞RDF Schema for Agent Types

Scenarios for Trust in the Semantic Web

In D11.2, to illustrate the use of trust and security in web applications where the Semantic Web can provide some useful tools, we discuss some scenarios for using RDF in support of Trust and Access Control.In particular, we then go on to develop one particular scenario in particular, and explore the use of reasoning in CWM to securely configure a home network.

- ☞Using RDF for Home Network Configuration
- ☞Diagram of the Home Network Configuration process

Brian Matthews, CCLRC.