

Preliminary Report of Public Experiment of Semantic Service Matchmaker with UDDI Business Registry

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Abstract. The public experiment of the semantic service search with the public UDDI registry is shown in this paper. The UDDI is a standard registry for Web Services, but if we consider it as a search engine, the functionality is restrictive, that is, based on keyword retrieval only. Therefore, the Matchmaker was developed to enhance the UDDI search functionality by using semantics such as ontology and constraints. However, for Web Services as e-Business platform, compliance with the standard specification such as SOAP, WSDL, UDDI is the key. Thus, our goal of this experiment is to seamlessly combine semantic search with those standards, and investigate the feasibility of using semantics with Web Services. This paper firstly shows the overall architecture where the Matchmaker can be located between UDDI and service developers/users. Then, the Matchmaker and our semantic service description which can be complementary used with the standard WSDL and UDDI Data Structure are shown. Also, we illustrate some tools which generate the service description and support the use of the Matchmaker. Finally, we qualitatively evaluate this experiment on the response from business users.