An Approach towards Automated Web Services Composition*

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ABSTRACT

With the growing number of Web services, importance of composing existing Web services into more complex services in order to achieve new and more useful solutions is increasing. A landscape of languages for Web services composition has emerged and is continuously being enriched with new proposals from different vendors and coalitions. However, current approaches based on these languages are rather restricted and inflexible as they lack proper support for generating dynamic compositions, which is a major challenge in this new paradigm. In this paper we present an approach to facilitate automated Web service composition in Service-Oriented Architectures using business rules. It is our belief that business rules can be used to determine how a composition should be structured and scheduled, how the Web services and their providers should be selected, and how service binding should be conducted. This paves the way towards developing automated Web services compositions.

Keywords: Web services, Composite Web services, Dynamic composition, Business rules, composition framework.