

# Selecting and Composing Web Services through Iterative Reformulation of Functional Specifications

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## Abstract

*We propose a specification-driven approach to Web service composition. The proposed framework allows users to start with a high-level, possibly incomplete specification of a desired (goal) service that is to be realized using a subset of the available component services. These services are represented by the system using transition systems augmented with guards over variables with infinite domains and are used to determine a strategy for their composition that would realize the goal service. In the event that the goal service cannot be realized using the available services, the system identifies the cause(s) for such failure which can then be used by the developer to reformulate the goal specification. Thus, the system supports Web service composition through iterative refinement of the functional specifications. We present a prototype implementation in tabular-logic programming environment that illustrates the key features of the proposed approach.*

## 1 Introduction

Recent advances in networks, information and computation grids, and WWW have resulted in the proliferation of a multitude of physically distributed and autonomously developed software components and services in various domains including e-Business and e-Science. Real world applications in these domains call for effective tools for developing composite services using available sets of component services. Consequently, several approaches [6, 8] for doing automatic composition of Web services, including those based on AI planning techniques, logic programming, and automata-theory have been proposed. However, the current approaches have some important limitations:

*Reliance on a complete functional specification of the desired service:* Existing techniques to service composition [1, 3, 16, 19, 20] require the developer to provide a specification of the desired behavior of the composite service (goal) in its entirety. This forces the developer to work with a complete composition graph. The complexity of such a

composition graph (and hence the cognitive burden on the developer) grows rapidly with the increasing complexity of the goal service. In practice, it is difficult to know in advance whether a desired goal service can in fact be realized using the existing components. In many cases, the failure to realize a goal service using a set of component services may be due to incompleteness of the goal specification. In such a setting, it is desirable that the system allows the developer to start with an abstract, and perhaps incomplete specification of the goal service and in the event that the goal service is not realizable using the existing components, guide the developer in reformulating the goal specification so as to reduce the ‘gap’ between the desired functionality and the capabilities of the existing components.

*Inability to handle infinite-state behavior of services:* Often, Web services have to cope with a-priori unknown and potentially unbounded data domains (e.g., data types defined by users in WSDL documents). Analyzing the behavior of such a service requires consideration of all possible valuations, which makes the resulting system infinite-state. However, most of the existing approaches to service composition do not take into account the infinite-state behavior exhibited by Web services.

Against this background, we propose *MoSCoE* [13]—a framework for Modeling Service Composition and Execution, based on an approach to service composition through an iterative refinement of the functional specification of the goal service. MoSCoE accepts from the user, an abstract (high-level and possibly incomplete) specification of a goal service. In our current implementation, the goal service specification takes the form of an UML state machine that provides a formal, yet intuitive specification of the desired goal functionality. This goal service and the available component services are ‘finitely’ represented using labeled transition systems augmented with state variables, guards and functions on transitions, namely, Symbolic Transition Systems (STS). Thus, the task of the system is to compose a subset of the available component ser-

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