Abstract

Methods and Systems for Service Discovery and Selection

A systems and method are proposed that address the task of locating advertised services satisfying specific requirements described by a service request, and ranking discovered services so as to enable selection of best services among them. Real life scenarios often involve services described with complex pre- and post-conditions, and have Quality of Service (QoS) associated with them. The proposed method and apparatus support a unified matching of functional as well as non-functional service properties: input-output, complex constraints, and QoS. A novel service discovery and selection algorithm can adaptively locate advertised services by performing a flexible matching of the three service properties. The algorithm is capable of returning partially matched services should there be no exact match.

[Figure to print with the abstract: Figure 3]

162162

G00002