

A Framework for Requirements Monitoring of Service Based Systems

Khaled Mahbub
Department of Computing
City University
London EC1V 0HB
44 20 7040 3722
am697@soi.city.ac.uk

George Spanoudakis
Department of Computing
City University
London EC1V 0HB
44 20 7040 8413
gespan@soi.city.ac.uk

ABSTRACT

This paper proposes a framework for monitoring the compliance of systems composed of web-services with requirements set for them. This framework assumes systems composed of web-services that are co-ordinated by a service composition process expressed in BPEL4WS and uses event calculus to specify the properties to be monitored. The monitorable properties may include behavioural properties of a system which are automatically extracted from the specification of its composition process in BPEL4WS and/or assumptions that system providers can specify in terms of events extracted from this specification.