Phased Effort Estimation of Legacy Systems Migration to Service Oriented Architecture

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Abstract

Cost estimation for Service Oriented Architecture (SOA) has not been addressed properly in the existing literatures. Most cost estimation approaches published in the literatures are more guidelines than actual practical estimation techniques. On the other hand, traditional software cost estimation techniques donøt fit SOA characteristics properly. In this paper, a phased effort distribution in legacy systems migration to SOA is presented.
In this paper, we have identified several cost factors related to SOA. These cost factors have been distributed among different SOA project phases. Then weight for each cost factor has been assigned. This approach has been applied to different service migration strategies to SOA. The results have been obtained and analyzed. This approach represents one possible way to estimate the overall cost of a SOA project early and accurately by estimating the cost of only one phase of the project.
Keywords ô "SOA; Effort Estimation; Service Migratio