



**RESEARCH ARTICLE**

# **A Context Aware Framework at Transport Layer to Improve QoS in Mobile Applications**

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*Abstract—New mobile devices and mobile Internet applications are transforming the traditional concept of computing and user's experience. Applications which even initially do not required Internet connectivity now using Internet to provide update, new features, advertisements and add-on in an application. Context-aware computing is a mobile computing paradigm which makes mobile devices and applications smarter in which applications can discover, interpret the surrounding environment and take advantage of contextual information by using it proactively and intelligently. In this paper a context aware framework is proposed at transport layer. This framework provides information to the mobile applications which improves user's experience and open new dimensions to provide new features to it. Framework improve the QoS of the system by incorporating adaptation engine at application layer and transport layer context system at transport layer for an individual's changing context.*

*Keywords— context awareness; mobile application; QoS; transport layer context system*

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