

## **Abstract**

Communication technology growth very fast, many technology arise with feature to help communication between people or mechine. To support communication between machine it's need protocol as a rule to communicate and understand each other request and response. Mobile phone is one of the favourite communication tool, every mobile phone vendor creates feature to facilitate people communication and also data transfer. In this papper writer try to build protocol application level to facilitate file sharing between mobile phone, use GPRS as transport medium and TCP as transport protocol and also writer made implementation and analysis system from Mobile File Sharing Application or MoFiS, after analysis phase writer can know that file transfer using MoFiS is faster when download process rather than upload process and the delay value depend on bandwidth allocation from operator at that time.

**Keywords:** *protocol, mobile phone, gprs, tcp, MoFiS, file sharing, delay*