# ABSTRACT

Ad-hoc network communication is dynamic with no predefined network infrastructure or network topology. Most of the current researches on ad-hoc networks focus on the routing issue. However the faulty networks and the security issues should be a major concern. This thesis proposes a basic security model for ad hoc networks including an additional information related to the node coupling, which aids to the avoidance of the group re-keying. The discussion is based on a concrete example of a security trust model, which describes secure communication between a number of ad hoc nodes.