

## ABSTRACT

Reliable communication network is the most fundamental of any enterprise. Then the first and foremost thing is making an estimation of the performance of the desired network.

In this project, we describe the use of OMNET++ (Objective Modular Network Testbed in C++) simulation tool for modelling and analysis of different LAN (Local Area Network) technologies. OMNET++ is a comprehensive simulation tool for performance evaluation of communication network. The LAN technologies include token ring and FDDI (Fiber Distributed Data Interface).

The aim of the project is to study performance characteristics of different LAN technologies by gathering statistics such as delay, throughput, utilization link and load. The result gathered from simulation are analyzed and compared with each other. The conclusion are made in terms of projection of the performance of each individual technologies for a desired specification.