

STUDY AND DEVELOP AN ETHERNET PROTOCOL ANALYZER APPLICATION IN LOCAL AREA NETWORK ENVIRONMENT

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ABSTRACT

This project involves an in-depth study on data communication technology between computers. The analysis, design and implementation phases will be present during the development of a protocol analyzer application for Ethernet LAN segments. The main goal of this application is to give the network administrator a better understanding of the network they support, by providing information about network traffic flow and usage patterns. The administrator can use the application to track and capture all information transported over the Ethernet, for example the data packet. All major application protocols will be covered, including TCP/IP, UDP, HTTP, HTTPS and others. Log files can be generated with this application for network management purpose. Administrator can ensure the security of the organization's network. In the event of security breaches, we can identify the root of the problem, and take action before problems further occur.