THE ANALYSIS OF SYNCHRONOUS DATA LINK CONTROL (SDLC) USING DATA TOOL

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ABSTRACT

Data communications protocols are an integral parts of wide area networking. This project paper present the analysis of Synchronous Data Link Control (SDLC) using hardware and software set up to establish the different function in data transmission network.

The first chapter provides an introduction to the network in data communication, followed by chapter two, more focus about the layer in standard protocol. Chapter three provides Synchronous Data Link Control (SDLC) equipment set up and chapter four present the measurement results and results analysis using Data Tool.

However, in this paper the main objective of the study is to present the analysis the layer of data link control in Synchronous Data Link Control (SDLC) using Data Tool.

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CHAPTER 1

INTRODUCTION TO NETWORK

1.1 A communication model

A simple model of a communication system is illustrated by the block diagram in Figure 1.1. The fundamental purpose of a communications system is the exchange of data between two parties. The communication is between a workstation and a server over a public telephone network. Another example is the exchange of voice signals between two telephones over the same network. The key elements of the model are:

Source: This device generates the data to be transmitted; examples are telephones and personal computers.

Transmitter: Usually, the data generated by a source system are not transmitted directly in the form in which they were generated. Rather, a transmitter transform and encodes the information in such a way as to produce electromagnetic signals or any other form of signals that can be transmitted across some sort of transmission system. For example, a modem takes a digital bit stream from an attached device such as a personal computer and transform that bit stream into an analog signal that can be handled by the telephone network.

Transmission Medium: This can be a single transmission line or a complex network connecting source and destination.