

ABSTRACT

Dense Wavelength Division Multiplexing (DWDM) is one of the technologies in the optical fiber which can transmit more than 8 wave of wavelength in an optical fiber. In the implementation in PT XL Axiata, DWDM is used for BTS backhaul network to GSM network. Presentation and processing systems of optical network performance is still done manually, by observing raw data (data txt) on the monitor terminal (NMS) which very much amounts to choose certain parameters. So it is very tiring because it takes a long time. Then data selection results presented by Excel. Data can only be viewed on the local terminal screen, while many people who want the data can be accessed anywhere

In this final project was made of information system applications to process data in the form of the results of monitoring the process of parsing (filtering) using the PHP programming language. Then the parsing results are stored in the MySQL database system. Furthermore, the data is presented in tabulated form using PHP and the graphics using Macromedia Flash. Then designed a web page to display the data had been processed and uploaded to the web site so that any officers can access the web interface.

The results of the design of information systems after functional testing, ranging from accessing web pages up to try the whole fiur which has been designed to run as its function. Has also conducted performance testing length of processing time of 3 MB of raw data into a database, and also tested the length of time access web pages with an average length of time ranging from web page to web page to appear in full.

Keywords: DWDM, Information Systems, PHP, MySQL.