ABSTRACT

The use of high-speed network technology such as Fiber to the Home (FTTH) has

become very important in meeting the demands for reliable and fast connectivity in a

residential environment. This Final Project aims to analyze and design an FTTH network

in Jati Uwung 3 Housing neighborhood using OptiSystem simulation software.

The main objective of this research is to design and analyze an FTTH network that

can meet the needs of residential residents. The research methodology includes several

steps, including a field survey to understand user needs, analysis of those needs, and

network modeling using OptiSystem software. Thus, this research aims to produce an

optimal network design that is in accordance with the conditions and demands that exist in

the Jati Uwung 3 Housing neighborhood.

Keywords: Optical Fiber, FTTH

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