

ABSTRACT

In the era of high connectivity and rapid data exchange, reliable network infrastructure is crucial to a company's success in a rapidly growing industry. Metro Ethernet (Metro-E) is a popular solution in the telecommunications sector that leverages the advantages of Ethernet for fast and efficient data transmission in metropolitan areas. The purpose of this service is to provide a network that is adaptable, reliable, and efficient for businesses and companies. The method used involves utilizing the Ethernet protocol to create a flexible network that can accommodate the growth of data volumes and increasing customer demand. As a result, Metro-E is able to provide a network with high capability and reliability, making it suitable for metropolitan areas such as big cities. The main conclusion is that this technology has successfully met the need for reliable and efficient network infrastructure, supporting the growth of businesses and companies. PT Telkom Indonesia, as one of the leading providers, has successfully implemented Metro-E services to serve various customers, proving the efficiency and reliability of this technology in the telecommunications industry.

Keywords — Metro Ethernet, Data Transmission, Network Infrastructure, Ethernet, Metropolitan