

ABSTRACT

In an industrial era that relies heavily on connectivity and fast data exchange, the reliability of network infrastructure is an important factor in the success of an organization. Amidst rapid growth in data volume, application complexity, and high user demand, enterprises and institutions are looking for solutions that can provide the performance and reliability they need. One of the network system solutions used in the industrial sector is the Metro Ethernet service, also known as Metro-E.

Metro Ethernet is a network technology that uses Ethernet as a connecting protocol in metropolitan areas. This technology combines the advantages of Ethernet, namely the ability to transmit data quickly in large volumes, with a network scale that covers a wider area such as a city or metropolitan area. The development of network system technology has triggered the growth of the service provider industry or network system services. One of the companies providing Metro-E network system services is PT Telkom Indonesia, which serves business customers and enterprises in this industry. PT Datacomm Diangraha is a partner of PT Telkom Indonesia which focuses on network system projects, including Metro-E services, using the NOKIA device platform.

However, this development also poses a challenge in meeting the need for a skilled and competent workforce in the field of network systems. The growing demand for technical expertise in managing complex network infrastructure must be addressed through effective apprenticeship programs. PT Datacomm Diangraha, as a company engaged in the field of network systems, provides opportunities for students to learn and gain experience in the network system service industry through an internship program. One of the internship programs carried out was the implementation of the latest network technology such as the Nokia Metro Ethernet Platform in the "*Procurement and Installation of the Nokia Metro Ethernet Platform Expansion PT Telkom Indonesia*" project. The apprenticeship program is an important means of creating and developing a skilled and competent workforce. This program provides apprentices with opportunities to develop their technical skills, business understanding and ability to adapt to the latest developments in networked systems.