

## ABSTRACT

When a company needs to grow its network using diverse network elements or devices from many different vendors, it needs a robust network management platform. Network management system is designed to manage various kind network elements using addressing method for each of them. Network management system is made up of tools for monitoring and controlling at an integrated centralized system, so that it can minimize simplify the operation and maintenance activities of entities at different remote location.

Some of telecommunication devices are managed using protocol SNMP based on protocol TCP/IP and some other using CMIP based on protocol OSI. Specification of Simple Network Management Protocol (SNMP) are published in 1988 by Transmission Control Protocol/Internet Protocol (TCP/IP) developer. They develop a way to manage heterogeneous network topology from a complex network. Common Management Information Protocol (CMIP) is a network management protocol issued by International Standards Organization based on Open System Interconnection (ISO/OSI) model.

Nowadays, network management system disposed integrated, so many network can control with a single operator interface. Because of that, we needed integrated protocol network management to the company with SNMP or CMIP. For that the reason, this final project, the writer want to integrated system between SNMPv1 with SNMPv2 and with CMIP. To create it, the writer try to integrated that protocol to the PT. TELKOM existing.