

## ABSTRACT

Telecommunication Network is all telecommunication equipment that can connect its users to other users so they can exchange information. In communication system, the successful of a communication mostly depend on the quality of a telecommunication network.

Before the existence of the Local Area Network (LAN) technology, there is only Wide Area Network (WAN). With LAN technology, we need to define some kind of network from its coverage area or the distance and the media that is used.

Local Area Network can be defined as a network or a number of computer system that located in a building, a building complex or a university complex and does not used communication media such as telephone line. The owner and administrator of communication media network is the LAN owner himself.

There are many things must be considered when we build or develop a LAN. Every LAN has its own characteristics due to the application, technology and user. It must be set to match the need and the ability of the user. The success factors of a LAN implementation depend on many things. If we are not carefully they can cause a big cost, much bigger than the first buying.

It must be mention that a LAN implementation means connecting to many users, so it is more complex to satisfy all users.