

ABSTRACT

The developments of technology nowadays were more advanced, especially in telecommunications matter. Communication by fiber optic technology is one of the technology that's widely used as a data transmission between the sender and receiver on a network, that usually allows the users can be communicate with high data rates. And for the delivery of data it need of a data security that the data is safe when delivered. The security technique's were used as a Optical steganography which is the data to be transmitted in a hidden under of common network. So that, the data transmitted will be safe and doesn't detected by a hacker. In this study cases, it uses a software, that's called by Optisystem as the simulation for design the network one.

The method is used for the study of literature, that used to perform the analysis system and for design and implements data security system Optical steganography. Then, the Optisystem were done into the module.

Keywords: Fiber optic, Optical steganography, Optysistem