

ABSTRACT

Local Area Network (LAN) is a network technology that uses cable devices as a data transmission medium that can generally be found in a computer network. The Office of the Central Statistics Agency of the Special Region of Yogyakarta Province uses a Local Area Network (LAN) network in each room of its units in order to get a fast internet network. In conditions and situations in the field, sometimes the Local Area Network (LAN) internet network at the office of the Central Statistics Agency of the Yogyakarta Special Region Province gets interference with UTP (Unshielded twisted pair) cables, switches, and IP Addresses. The occurrence of this disruption can be caused by several factors and the impact that occurs if the Local Area Network (LAN) internet network cannot work optimally will cause obstacles for the staff of units at the office of the Central Statistics Agency of the Yogyakarta Special Region Province in providing data needs for the government and the community. The solution to overcome these problems is to first see whether the UTP cable and switch can still be used or not, if the UTP cable can still be used, then you only need to replace the connector, replace the old/damaged hardware with a new one, change the IP address so that it can be detected by other computers, and check whether the computer can connect with other staff computers.

Keywords: Local Area Network (LAN), UTP (Unshielded twisted pair), Switch, IP Address.