Rancang Bangun Perangkat Lunak Telemetri Berbasis Global Positioning untuk Sinkronisasi Waktu

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Abstrak

Telemetry in this study is utilized to measure electrical energy through internet as communication media. The electronic meter requires accurate time stamps in order to get valid energy measurement. The calibration of the electronic meter clock can be carried out by synchronizing with the time data from a Global Positioning System (GPS). A server computer is connected with the GPS and receives data from a satellite. ActiveX control is used to develop the software for connecting the server computer with the electronic meter while Active Server Pages (ASP) is employed to develop the internet application The communication process needs time, therefore elapsed time is added to correct the time data during the setting of the electronic meter. The experiment has successfully synchronized the clock of the electronic meter with the time data from the GPS through internet. The research can be further carried out for synchronizing several electronic meters having different protocols.