



## **1.05. AUTOMATIC INFORMATION GATHERING SYSTEM FROM MDRPA**

The system is designed for gathering information automatically on 24/7 basis from microprocessor-based devices for relay protection and automation (MDRPA), i.e. information on MDRPA operation, damage parameters, oscillograms of emergency events etc. The obtained data is stored on a system's server, where it can be taken from for further analysis of technological processes and actions of operating staff.

The system's software consists of Microsoft Windows Server OS, relational system of MS SQL Server database management, and a package of dedicated software as a part of the program for data acquisition and analysis received from MDRPA Relay Driver and a program for internal clock synchronization of MDRPA SNTP Server terminals.

Due to this software package, an automatic information gathering system performs the following tasks:

- simultaneous, independent and parallel data acquisition from all MDRPA, which support standard international communication protocols (both serial and network);
- storage of present and emergency information from all MDRPA;
- filtering of the obtained data and full access to the information from any work place located in a corresponding network from all levels via "client-server" technology;
- synchronization of the internal clocks of all MDRPA with accuracy regulated by the exchange protocol.