- Supervisory system based on web server
- Number of clients limited only by the server performance and its connectivity
- Collection, administration, archiving and visualization of data from control systems and measuring equipment
- Client access via standard web browser
- Strict application of proven standard IT technologies
- Simple and clear licensing policy

LookDet®

Supervisory system

Small Control Systems

Control Systems

Remote meter reading

M–Bus

System administration

Web server
SQL
OS Linux

Maintenance

Supervisory workplace

Users

Internet/WAN

Automating Your Success®

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The LookDet concept

- web server with IP connectivity
- "cloud" solution for an unlimited number of clients (users and administrators) and connected control systems
- applications can be separated into "localities", which are completely autonomous, have their administrator, connected control systems and users
- control systems actively send data to the server
- the best use of data-processing capacity on the server
- the physical position of the server is not important.

It can even be stored in the dedicated server of the internet providers and run remotely

LookDet’s properties

- displaying monitored technology in the form of websites
- control system and measuring instrument data are accessible from any place. Direct read/write access is available to the control system data
- information about the communication status of individual stations
- predefined graphical elements for displaying and editing data (graphs, time-schedules, heating graphs)
- exporting data to CSV format, wide range of options for storing exported data
- automatic archiving on external disk in the set period
- freely-editable graphics for technology and presenting collected data – simple editing in SVG graphic format
- secure access to application and data
- logging parameter changes per user
- powerful system for trouble-shooting, records who received information about the fault, when and how it was resolved (e-mail, mobile application, www)
- user can create a multilingual version both on an environment level and for their own application
- user-friendly system for verifying users and administrators
- synchronizing time of the control systems

LookDet technical solution

- Server (min. requirements for configuration)
  - HW: Core i5, 8 GB RAM, 2 RAID discs (100 GB), external network disk for data back-up
  - SW: OS Linux, Ubuntu 14.04, operating SSH, set-up ROOT access

- Client station
  - HW: any PC, tablet or mobile telephone
  - SW: web browser supporting SVG technology

- Communication
  - TCP/IP (Internet, LAN/WAN)
  - Public static IP server address

LookDet communication options

- DB-Net/IP (detection on UDP port, active recording/reading station)
- M-Bus for DM-MB2ET/A or DM-DI4MB2ET transfer
- MODBUS TCP client
- HTTP - POST

Advantages of LookDet

- localities can be rented as a service; there is no need to arrange for the operation of own server
- in addition to standard outputs [visualization, graphs, data export] data can be used in other high-level systems thanks to the SQL database, e.g. for further analysis and cost allocation
- the parametrization of supervisory system [setting the application, own visualization] is applied on-line in one place [server] from any place via the web browser; it is not bound to any specific computer even in the development stage
- the operative system for administering faults and the limiting values of control technology – own mobile application [OS Android] to warn the service technician in the field immediately, to take over the announcement and to conduct repairs
- clear monitoring of the status of announced faults on any of the client’s workstations
- open to expand the functionality of visualization using own JavaScripts
- control systems can also be connected using dynamic IP addresses

Simple LookDet licensing policy

- basic license of the supervisory system
  - single installation of the system
- basic license contains 1 locality, 5 stations, 5 users
- further licences for localities, stations and users can be purchased
- theoretically an unlimited number of users and connected stations. The system is limited only by the servers performance and its connectivity
- licences can be extended via the web browser