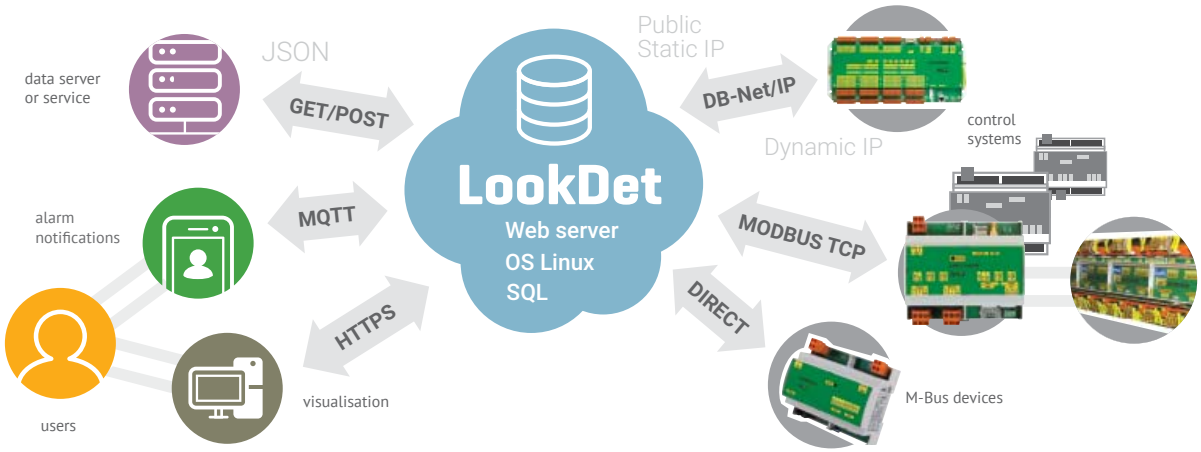
LookDet

Supervisory system



- visualisation and supervision cloud-based system
- collection, management, archiving and visualisation of data from control systems and meters
- access of clients' visualisation stations to the server via standard web browser
- number of clients is limited only by the server performance and its connectivity
- strict use of proven standard IT technologies
- simple and clear licensing policy

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LookDet main functions

- integration of technological sections
- collection, monitoring and long-term archiving of data from control systems and meters
- remote access to live values of the managed technology
- monitoring alarm states, alarm processing and resolution
- data analysis of measured and calculated values

Usage examples

- district heating systems
- building management – hotels, conferences, concert halls
- office building automation and energy management
- remote access for control and supervision of ice hockey arenas
- energy management of a network of retail stores
- remote control and supervision of water and waste water treatment facilities
- supervision and control of energy management of plants and establishments
- supervision and control systems for lighting in office buildings, factories and warehouses
- supervision and control of indoor environment quality of buildings

LookDet simple licensing policy

- basic licence of the supervisory system – a single installation of the system
- basic licence contains 1 locality, 5 stations, 5 users, 10 M-Bus devices
- optional expansions for localities, connected control systems, M-Bus devices and users
- theoretically unlimited number of users and connected stations – limited only by the performance of the server and the connection bandwidth
- licence can be expanded via a web browser
- licence policy is not based on the number of data points but on the number of connected control systems and user accounts
- there are no further fees attached to operation of the server application

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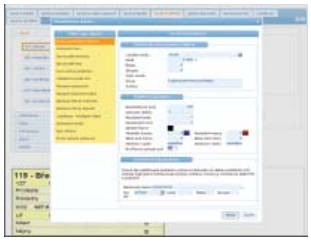

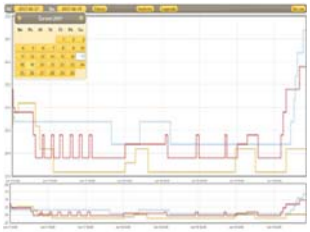

LookDet basic properties

- not a software-as-a-service solution – it's a custom server-based solution without the need to install a user app/client
- visualisation of the monitored technology as a website
- access to the control system and sensor data from anywhere, possibility to read/write control system data directly
- overview of communication with individual stations
- predefined graphical elements for displaying and editing data (graphs, time plans, heating curves)
- data export to CSV format – wide range of options of the export data form and scope
- automatic archiving to an external network drive with a pre-set period
- freely-editable graphics for technology and presentation of collected data – simple editing in SVG format (freely available library of graphics)
- custom PHP plug-ins
- secure access to apps and data (TLS)
- logging parameter changes per user
- powerful system for alarm processing which records alarm source as well as further stages of alarm processing and acknowledgment (e-mail, www)
- users can create a multilingual version both on an environment level and for their own application
- user-friendly system of user rights management
- control systems time synchronisation
- support of HTTP GET and POST methods for data exchange with third party servers

LookDet technical solution

Server (minimum system requirements)

- HW: Core i5, 8 GB RAM, 2 drives in RAID, external network drive for data backup
- SW: OS Linux, Ubuntu 18.04, 64-bit, operating SSH, ROOT access

Client access point

- HW: any PC, tablet or smart phone
- SW: SVG compatible web browser

Communication

- TCP/IP (Internet, LAN/WAN)
- server with a public static IP address

LookDet communication optionst

- DB-Net/IP (listening on the UDP port, active station reading/writing)
- MODBUS/TCP (master)
- M-Bus with an Ethernet converter
- HTTP – POST

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