



## LEON IBMS/Automation Software

### All-in-one Data Acquisition, Logging, & Visualization

LEON IBMS/Automation Software is an innovative software for building control and energy management. It combines the core functionality of a Building Management System (BMS) for connecting and controlling devices, with the added benefits of a Building Operating System (BOS) to manage and leverage data.

Powerful data visualization tools bring your data to life with dynamic dashboards that allow you to better analyze and aggregate your data, allowing your users to make more informed decisions.

LEON IBMS/Automation Software integrates all the electrical, mechanical, and security control systems in a building with the various hardware and software components, so the collected information can be shared by all systems in your building. This interoperability improves the functioning of all control systems in your building, increasing energy efficiency, enhancing security, and creating a more comfortable work environment in your building. All the essential control systems in your building can be interconnected by our software system, including

- Heating Ventilation and Air Conditioning (HVAC)
- Energy Management
- Lighting Control
- Access Control/Security Systems
- Critical Environments
- Fire and life safety systems/smoke evacuation & Power monitoring.

### Industries

- Energy Management / Information
- Building Automation
- Data Centers
- Process Control

### Remote Site Monitoring & IoT

The LEON IBMS/Automation Software combined with a Datos Automation cloud server offers unified remote system monitoring or control. Each Terminal Server installed in different locations seamlessly syncs its real time and historical data to the central server while the central BMS System monitors each remote connection terminals to ensure top performance. This allows a variety of topologies to be used.



## Features

LEON includes everything you need to build a powerful, scalable and modern IIoT, SCADA or Data Acquisition System



### Built In Protocols

With BACnet, Modbus, MQTT, SNMP, DNP3, SQL, CSV Files, HTTP, and others there is no need to pay for extra drivers or software tools. Management of user access, alerts, data logging, alarms and automation.



### High Performance Time Series Historian

LEON BMS Software is capable of storing billions of historical values with ground breaking throughout while utilizing surprisingly small amounts of disk space.



### Automation & Alarming

LEON BMS Software includes several powerful scripting environments that allow users to write control algorithms or simple calculations. Users can configure multiple types of alarms trigger event handling or notifications.



### System Scalability

From a simple standalone application to a global data acquisition system with thousands of remote nodes, the same LEON software scales for all types needs.



### Advanced Schedules With Exception Calendar

Flexible scheduler for LEON BMS Software that allows weekly schedules to raise events and return them to normal. Exception rules are layered on a schedule to override lower layers and the default schedule. Layers can be times within date ranges or specific days.



### Powerful IIoT & Remote Site Monitoring

With automatic data replication, self healing history synchronizations and real time updates you can configure your global data acquisition/IIOT system to suit any need.



### Leading Edge Data Visualization

Utilizing leading open source web development technologies, LEON BMS Software provides a flexible development platform for mobile-friendly dynamic dashboards, web/mobile apps and kiosks.

## Logic / Automation

Meta Data Points

Scripting Data Sources

## Publisher Protocols:

HTTP

BACnet IP (slave)

Modbus IP (slave)

DATOS Cloud Sync


## Visualization / Dashboards

Dynamic HTML5 Graphics

Drag & Drop Editor

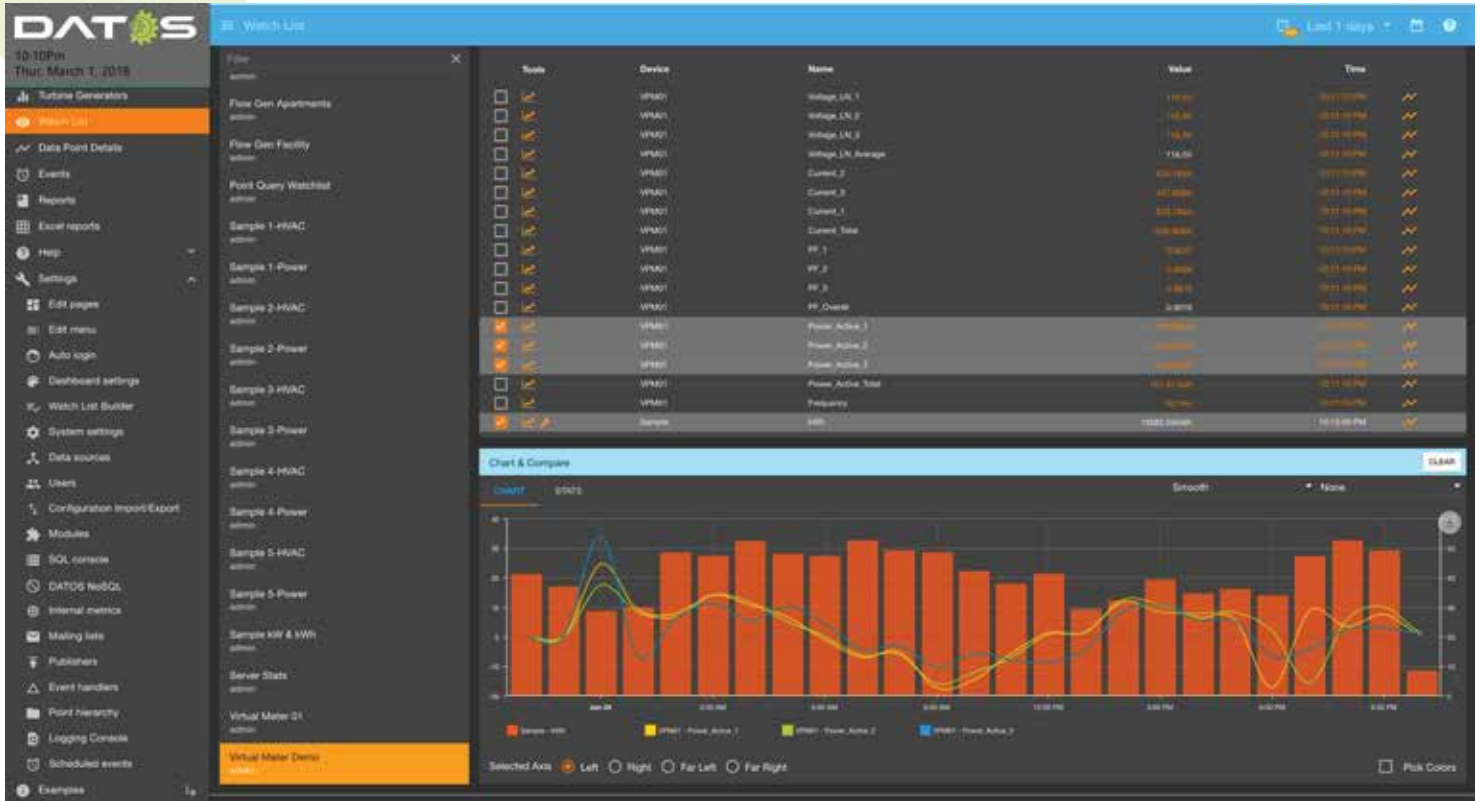
OpenSource AngularJS Framework





## Built In Analytics

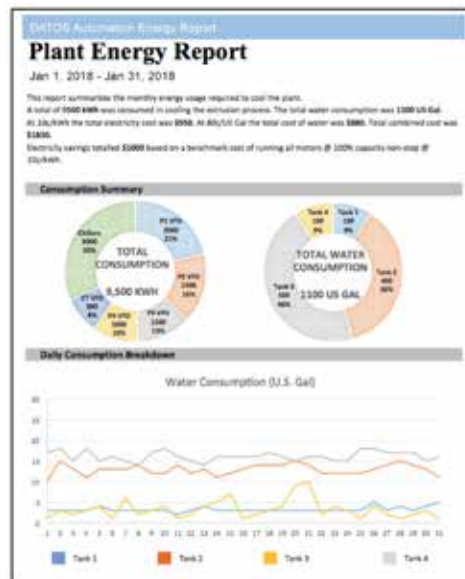
LEON IBMS/Automation Software provides several standard web interfaces for users to perform quick and efficient analytics of systems.




## Report and Billing

Create fully customized reports & bills using Excel documents. Users can manually run reports anytime, or reports can be scheduled and automatically delivered to users' email inboxes.

Reports utilize LEON's historical data and statistic analysis engine for highly flexible data queries.

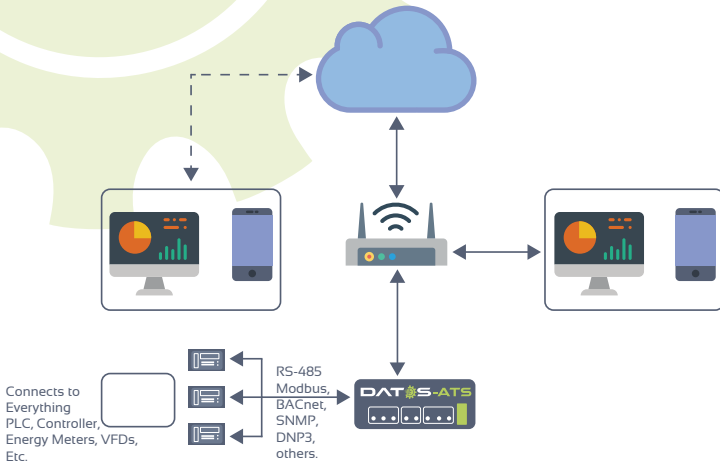


LEON IBMS/Automation Software is a 100% browser-based, cross platform software application that enables users to access and control electronic sensors, PLC's, devices, databases or web services over multiple protocols simultaneously. LEON-ATS provides an interface with which diverse data sources can be created and configured while providing downstream management of user access, alerts, data logging, alarms and automation.

Powerful data visualization tools bring your data to life with dynamic dashboards that allow you to better analyze and aggregate your data, allowing your users to make more informed decisions.



## Variety of Topologies

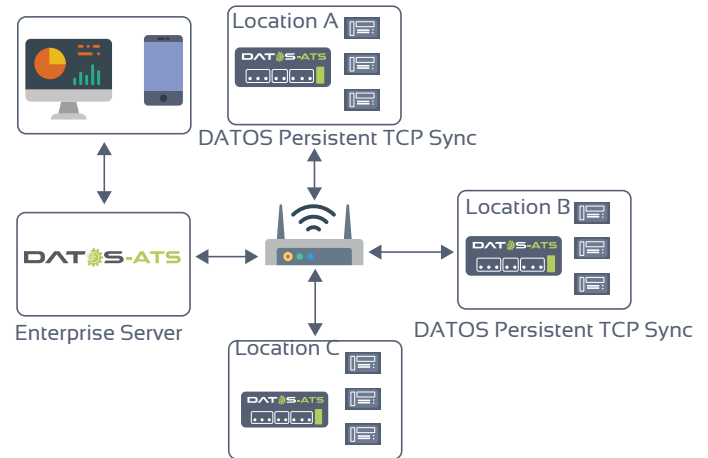


### Stand Alone Data Logging & Control

LEON IBMS/Automation Software is installed locally to gather data across the IP or serial networks available, providing users fast local access to their real time and historical trends for analysis, alarming and control.

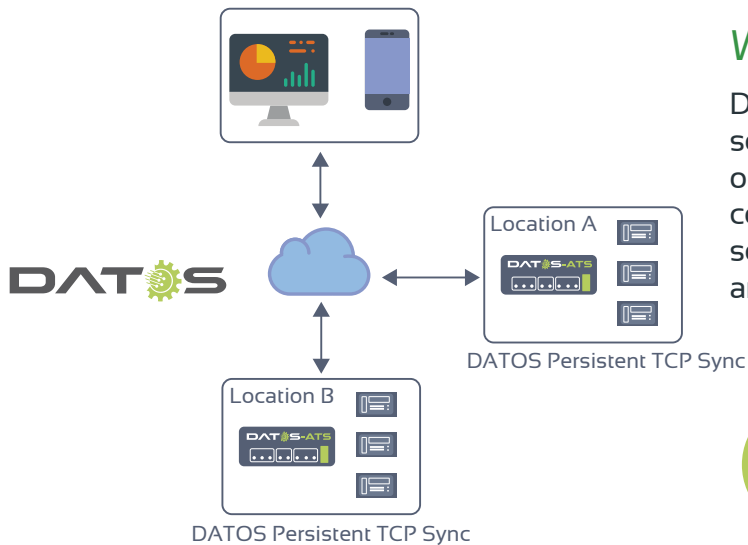
### Location Wide Distributed Installation

A central DATOS Enterprise server collects data on its local area networks while multiple LEON IBMS/Automation Software collect and forward data into the central DATOS server. This provides a easy, unified system where hard to access equipment can bridge local networks and exceed limitations on serial network lengths.



### Wide Area Network Installation

D A T O S Enterprise is installed in a cloud server. LEON IBMS/Automation Software's or other locally installed LEON Enterprise instances collect local data and forward to the central cloud server, giving visibility to systems and locations around the globe.



Building Automation



Industrial Internet of Things

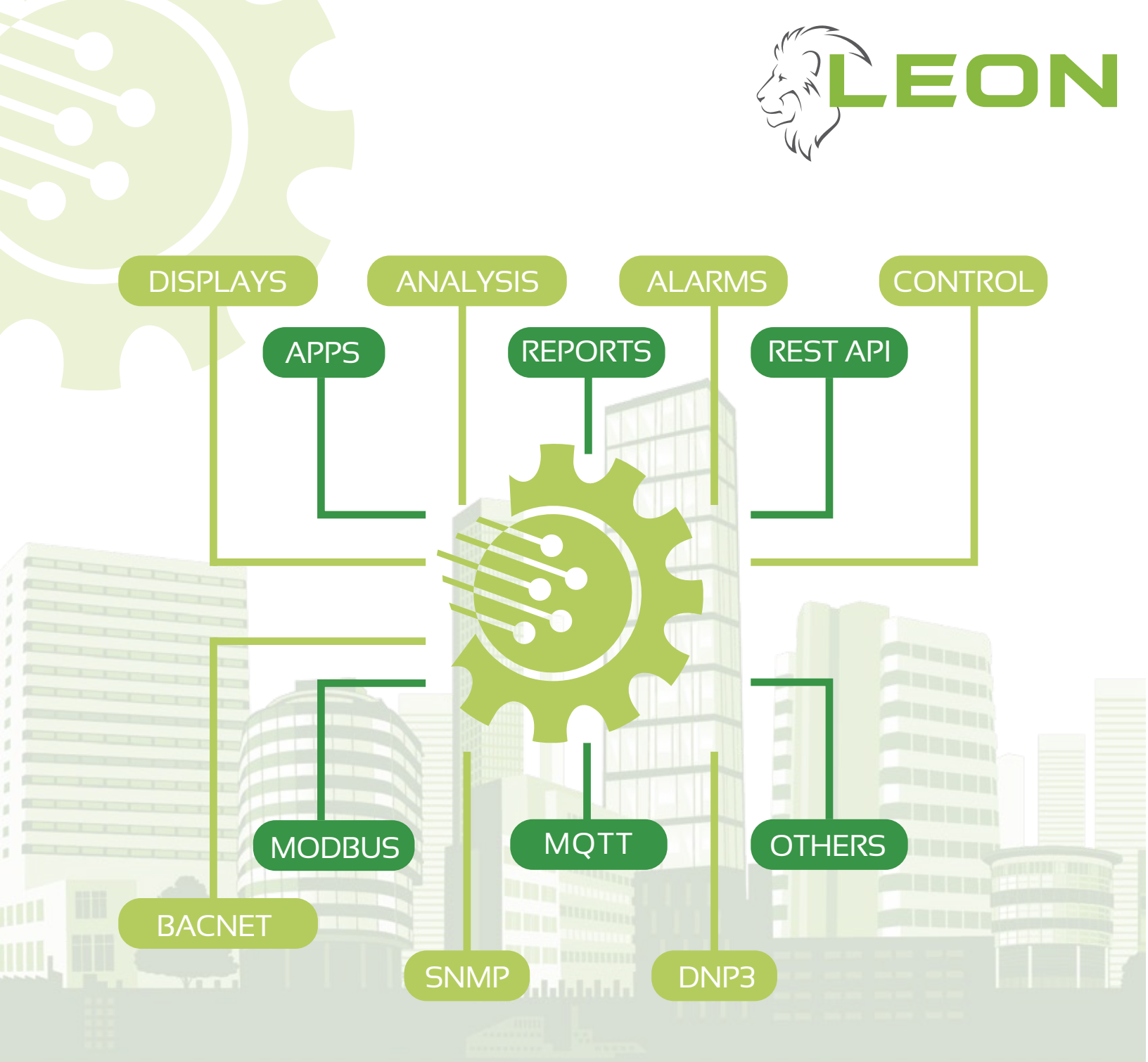


Data Center Automation



SCADA





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