Building Automation Software Solutions

VISUALIZE

HISTORIZE

MOBILIZE

ANALYZE

IoT CLOUD

ICONICS

Make the Invisible Visible™

Smart Building Software for Energy Efficiency

Property managers of industrial plants and facilities are under constant pressure to improve comfort, efficiency and sustainability and to reduce overall energy costs. Smart energy solutions turn data and information into building intelligence by integrating with existing BMS, SCADA and control systems.

Unified Building Automation

Operate your facilities at peak efficiency and maximum comfort by integrating all mechanical, electrical, safety, lighting, video and card access into an operations center. **GENESIS64™** unifies systems into a single operator workstation for coordinating resources and includes simple-to-create floor plans and graphics, alarming, trending and scheduling with BACnet discovery. Use WebHMI™ to operate facilities with a web browser or access information from any device with MobileHMI™.

- **Easily Import 2D, 3D and BIM Designs**
- **Navigate Alarms and Trends with Real-time Tree Explorers**
- **Coordinate Controls and Schedules Across Buildings**
- **Integrate with Existing Equipment for Rapid ROI**

Fault Detection Improves Maintenance

Facility AnalytiX® real-time fault detection and diagnostics (FDD) technology assists with commissioning and making improvement recommendations. It predicts equipment faults and proactively identifies energy offenders. When failures occur, automated fault diagnostics analyze sensor readings and provide a list of possible causes of failure while providing guidance to the service technician. This systematically reduces the Mean Time to Diagnose (MTTD) and helps to lower maintenance costs.

- **FDD Predictive Analytics Identify System Faults and Failures**
- **Quickly Deploy to Expedite Energy Goals and ROI**
- **Reduce Maintenance and Determine Probable Cause**
- **Visualize and Analyze Facility Operations and Energy Usage**

Energy Management and Sustainability

ICONICS software solutions efficiently perform ongoing commissioning, energy management and building automation. **Energy AnalytiX®** collects, records and visualizes energy metrics while providing analytics for any facility. This powerful system provides the rich visualization dashboards and reporting needed to assist in making decisions to reduce energy cost and improve overall performance.

- **Create Energy Dashboards with KPIs, Metrics and Analytics**
- **Standard Cost, Consumption and Carbon Reports**
- **Compare Time to Goals for Facility Improvements**
- **Integrate and Log Electricity, Gas, Steam and Other Meters**

Simple to Engineer and Deploy

ICONICS building automation solutions require no programming. Engineers, consultants and controls specialists can configure dashboards using one of our many standard features, like Quick Connect Meters, found in our web-enabled Workbench, which reduces costs and accelerates deployment. It is a centralized platform to create, engineer and deploy custom configurations.

Advanced Visualization and Reporting

Create and deliver dazzling real-time collaboration portals and self-service executive dashboards with trends, alerts and 2D & 3D rich animated graphics. Standard energy reports are automatically delivered with valuable building data. View and manage building operations using any desktop, web browser, kiosk, signage or smart device. Integrate geospatial data into building controls leveraging GIS information from Esri, Google and Bing® Maps.

IoT and Energy Smart Buildings

ICONICS is leading the way in cloud-based solutions with its building automation, energy management, analytics and mobile applications to help customers embrace the Internet of Things (IoT). Facility Directors and Energy Managers now have a great tool at their disposal to quickly deploy applications. ICONICS IoTWorX™ communicates with Microsoft Azure or third-party applications by publishing on-premises data to the cloud via the most popular transport protocols. IoT edge devices are cost-effective and easy to deploy with remote device management, provisioning and configuration. ICONICS' visualization, data historian, analytics and mobile solutions then subscribe to and consume this data, enabling customers to easily create Smart Building applications.

Universal Connectors

ICONICS' interface supports industry standard communications such as BACnet, Modbus, OPC, OPC UA, web Services and databases. Configuration and integration with BACnet is made easy with built-in support for native BACnet, alarms, trends and network objects. Simple discovery of devices on the network makes integration seamless and easy. Information is collected, aggregated and normalized from a wide variety of protocols and interfaces, including:

- **BACnet**
- **OPC**
- **SNMP**
- **Modbus**
- **Web Services**
- **Databases**

Building Applications

- **Commercial**
- **Retail**
- **Healthcare**
- **Higher Education and K-12**
- **Data Centers**
- **Casinos**
- **Stadiums**
- **Government**
- **Military**
- **Correctional Facilities**
- **Airports**
- **Transportation**
- **Pharmaceutical**
- **Laboratories**
- **Cities**
- **Manufacturing**

Benefits

- **Future-proof Your Investments in Building Automation**
- **Integrate with HVAC, Lighting, Security and More**
- **Provide Unified Operations Center Monitoring and Control**
- **Reduce Engineering, Startup, Deployment and Costs**
- **Instantly Deliver Alerts to Mobile and Smart Devices**
- **Coordinate Multiple Buildings with a Single Schedule**
- **Scale from Hundreds of BACnet Devices**

"Turn Data and Information into Building Intelligence."

Founded in 1986, ICONICS is an award-winning independent software provider offering real-time visualization, HMI/SCADA, energy management, fault detection, manufacturing intelligence, MES, and a suite of analytics solutions for operational excellence. ICONICS solutions are installed in 70 percent of the Global 500 companies around the world, helping customers to be more profitable, agile and efficient, to improve quality, and to be more sustainable.

ICONICS is leading the way in cloud-based solutions with its HMI/SCADA, analytics, mobile and data historian to help its customers embrace the Internet of Things (IoT). ICONICS products are used in manufacturing, building automation, oil and gas, renewable energy, utilities, water and wastewater, pharmaceuticals, automotive, and many other industries. ICONICS' advanced visualization, productivity, and sustainability solutions are built on its flagship products: GENESIS64™ HMI/SCADA, Hyper Historian™ plant historian, AnalytiX® solution suite, and MobileHMI™ mobile apps. Delivering information anytime, anywhere, ICONICS' solutions scale from the smallest standalone embedded projects to the largest enterprise applications.

ICONICS promotes an international culture of innovation, creativity, and excellence in product design, development, technical support, training, sales, and consulting services for end users, systems integrators, OEMs, and channel partners. ICONICS has over 350,000 applications installed in multiple industries worldwide.

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