



ICONICS Product Catalog

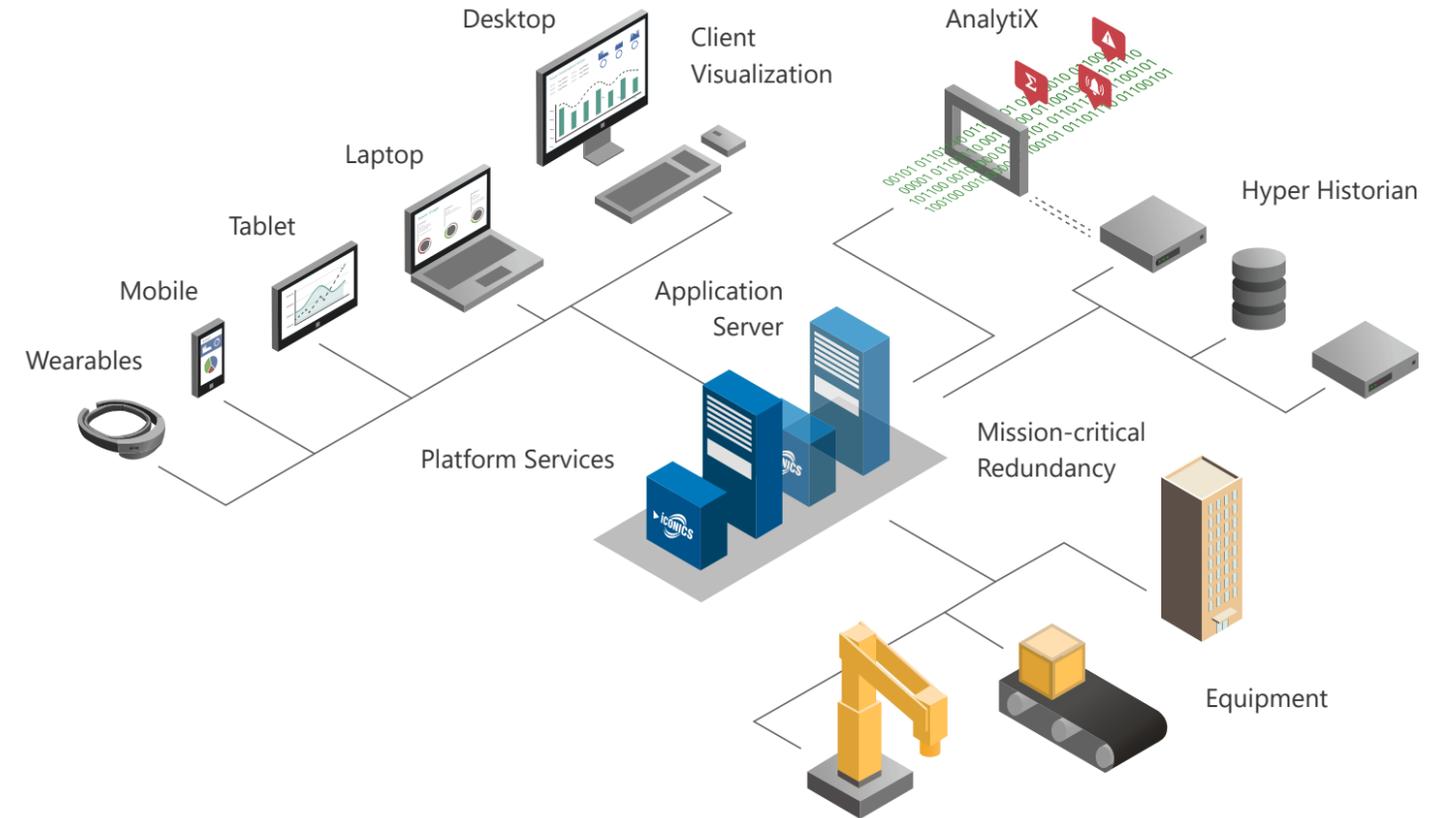


Microsoft
Partner

2017 Partner of the Year Winner
Application Development Award



ICONICS Cross-product Features



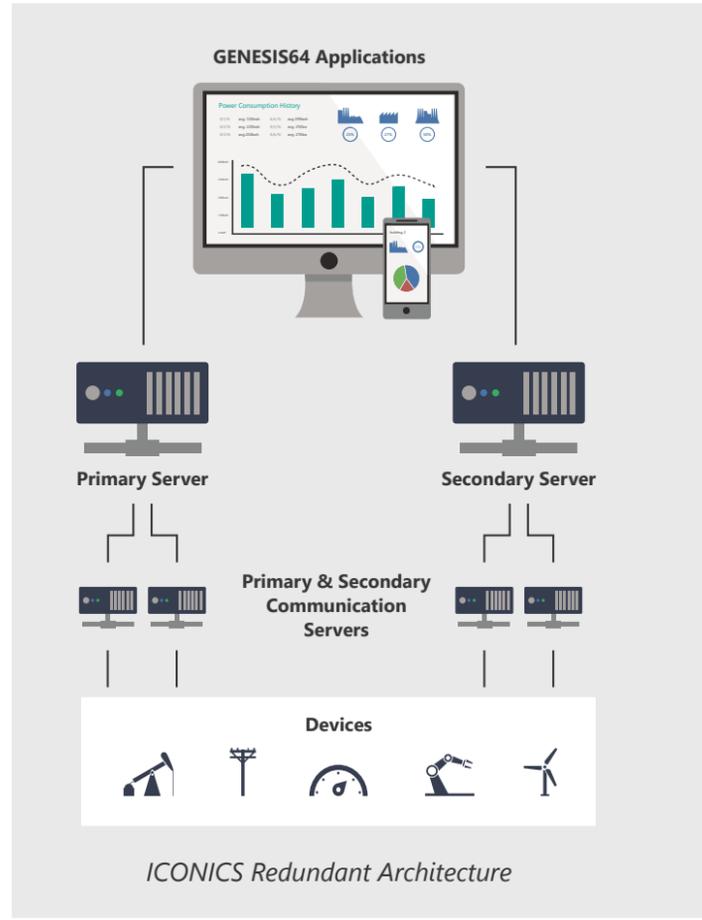
ICONICS System Architecture

Advanced Visualization on Any Device

Bring the visualization of ICONICS to any device. Migrate desktop displays created in GENESIS64 from desktop to any mobile client. MobileHMI™ is a powerful app that provides a consistent user experience on any mobile device for GENESIS64 dashboards. WebHMI™ brings the capabilities of GENESIS64 applications to any HTML5 or WPF compliant web browser. Generate executive self-service dashboards utilizing preconfigured symbols from any mobile device with KPIWorX™. GENESIS64's responsive UI flawlessly transitions between clients to provide a consistent user experience.

Mission-critical Redundancy

ICONICS ensures the safety of any critical data by offering high availability redundancy for communication reliability. Redundant collectors and loggers serve as a backup in case of a system failure. With automatic fault detection and store-and-forward technology, GENESIS64 users can be assured that mission-critical real-time data, historical data, and alarm information are always available. ICONICS redundancy solutions are simple to configure, install, and deploy. ICONICS software redundancy covers all major aspects of data redundancy such as data access, historical data, alarms, and security.



ICONICS Redundant Architecture

Powerful Centralized Configuration

ICONICS displays can be created using two powerful configuration tools. The Workbench is the multi-functional, centralized desktop or web-based environment for all back-end configurations making development more efficient and minimizing design time for any application. Offered in WPF, users can configure and manage their entire GENESIS64 application from anywhere.

Front-end user interfaces and dashboards are configured using the GraphWorX64 visualization module. Design HMI and SCADA displays leveraging 2D and 3D graphics, preconfigured symbols, dynamic properties, animation, and flexible aliasing.

Universal Connectivity

GENESIS64 supports industry standard communications such as OPC, OPC UA, Modbus, BACnet, web services, and databases. As the first 64-bit Advanced Workstation (B-AWS), GENESIS64 is certified by the BACnet Testing Laboratories, ensuring maximum integration with BACnet protocols such as BACnet objects, trends, and alarms. GENESIS64 is certified for OPC UA compliance by the OPC Foundation. Simple device discovery on the network makes integration seamless and efficient.

GENESIS64™

GENESIS64 is an advanced 64-bit multi-core, multi-processor SCADA/HMI system designed on Microsoft operating systems. ICONICS GENESIS64 suite is a native .NET application that delivers unparalleled performance with OPC and BACnet open-standard connectivity.

The GENESIS64 suite includes solutions that provide connectivity from plant floor and building facilities to corporate business systems. Designed to leverage 64-bit, .NET managed code, and OPC UA technologies, GENESIS64 allows operators, executives, and IT professionals to integrate real-time manufacturing, energy, and business information into a secure and unified web-enabled visualization dashboard.

GENESIS64 Key Features

- Visualize assets with 2D and 3D graphics
- Utilize object-oriented distributed alarm management
- Customize asset and tag organization
- Configure and develop in a web-based environment
- Command countless tools for visualizing data
- Save and export updated configurations



Improve Enterprise Productivity

The largest cost of any automation project is in engineering the application. For an average project, this can be well over 60 percent of the total expenditure. GENESIS64 greatly reduces configuration effort and minimizes design time, resulting in enormous cost savings and drastically reduced configuration time. As an award-winning Microsoft Gold Partner, ICONICS is able to consistently deliver software solutions based on the latest 64-bit Microsoft operating systems, including Windows 10, Windows 8, and latest Windows Server. Key features of Windows can be leveraged within GENESIS64 and provide users with the greatest application performance, reliability, and flexibility.

Distributed Alarm Management

Enterprise-wide distributed alarm management is done through AlarmWorX64, ICONICS native alarming module. AlarmWorX64 offers the tools to deliver real-time alarm management throughout a system, with ISA 18.2 compliance features. Configure alarms with a preconfigured AlarmWorX64 Viewer to integrate into any SCADA or HMI display.



Real-time and Historical Trends

Refine enterprise-wide data into trends, logs, charts, and reports with the GENESIS64 trending module, TrendWorX64. Chart real-time and historical data from any relational database to provide users with actionable data. Customize trends with colors, multiple data sources, multiple cursors, and animation. Interact with trends in runtime with multiple playback and filtering functions.



Asset Management

GENESIS64 includes a preconfigured asset management module called AssetWorX. Assets can all be organized and configured in the Workbench with a runtime component critical for scaling large projects while providing intuitive navigation. These hierarchies can also include alarms, customizable colors, icons, names, and drag-and-drop functionalities.



Native Geo-SCADA

ICONICS' GIS mapping module, EarthWorX, provides visualization for widely dispersed assets. Create a geographical overview to monitor multiple locations while maintaining the ability to locate and drill into specific assets. Users can integrate with Bing Maps, Google Maps, and Esri to include additional GIS mapping features and data layers.

