Oil & Gas Software Solutions

Microsoft Partner
Gold Application Development

Microsoft Partner
2014 Partner of the Year Winner
Public Sector: City/Next

Visualize Your Enterprise™
Real-time Collaboration Enables Continuous Improvement

Oil & Gas production, transmission and exploration involves a variety of assets dispersed across large geographies. The ability to monitor the condition, production and efficiencies of assets by users from the board room to field operations, helps drive continuous improvement.

Real-time Asset Monitoring
The new AssetWorX™ technology in GENESIS64™ integrates assets from different systems into a single hierarchical view, with standardized asset classes that define visualization, trending, fault analysis, commanding and workflow. From the wellhead, to metering, to storage and throughout the pipeline, the innovative Asset Navigator provides intuitive and instant access to equipment as well as immediate summary roll-ups to any operational level.

Field Operations Support
Quick access from smartphones, Web browsers, and desktops to real-time and historical data helps predict and avoid faults and assures smooth operations at peak production efficiency. In addition, ICONICS’ BridgeWorX™ helps users achieve automatic control and optimization by creating applications such as utility rate adjustment, dispatching and production demand control.

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• Smartphone, Control Room and Web Access
• Secure Alarm Notification and Escalation
• Quickly View Assets with GEO SCADA Visualization
• GridWorX™ Access to Database Production Summaries
• Collaboration and Integration with Control Systems

Engineering and Integration
Reduce engineering cost and time with the GENESIS64’s Web-based engineering Workbench. It provides a multi-user environment for defining graphics, alarming, calculations, analysis, trends, intelligent smart symbols, templates and SCADA logic. ICONICS’ solutions future-proof your investment by allowing easy migration to new technologies.

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• Condition Monitoring, Fault Detection and Diagnostics
• Redundant, Long Term Storage of Asset Data
• Roll-ups by Region, Field, Patch and Distribution
• ISA95 Navigation and Drill Down to Asset Details

• Reduced Engineering Cost with Open Standards
• Microsoft SharePoint® Collaboration
• Engineer Once, Deploy to “Any Glass” and “Any Device”
• Easily Import and Animate from AutoCAD and More
• Create Custom Performance Calculations
Wellsite, Field & Distribution Production Accounting

ICONICS’ high performance Hyper Historian™ assures continuous archiving of vital production data for instant visualization, reporting, alarm notification and trend replay. Analyze long-term historical data and compare it to ideal standards for maximum production. Use MergeWorX™ to seamlessly integrate historical data from any newly acquired lease into the Hyper Historian.

Unified Communication and Integration

GENESIS64 provides a scalable and distributed architecture that can integrate all aspects of oil and gas production. Adherence to open standards assures connections to all assets. ITFrameWorX™ database access technology seamlessly integrates with ordering, scheduling and field management systems. Custody Transfer is supported through tight integration with systems such as FlowCal and PGas.

- OPC
- OPC-UA
- Modbus
- DNP3
- Bristol
- FisherROC
- SQL
- Web Services
- ODBC
- SNMP
- ORACLE
- SAP

Predictive Analytics Solutions

GENESIS64’s new Fault Detection and Diagnostics (FDD) technologies can quickly predict equipment faults and energy inefficiencies and help identify probable causes. Create solutions with AnalytiX™, which can monitor compressor characteristics providing alert notifications of out-of-spec performance or assure that well “pump-off” settings maintain maximum production with minimum utility costs.

Industry Applications

- Tank Farms
- Custody Transfer
- Oil and Gas Pipelines
- Pipeline Leak Detection
- Drilling Operations Equipment Monitoring
- Well Automation On-Shore and Off-Shore
- Gas Field Asset and Production Monitoring

Benefits

- Reduced Engineering Costs
- System Wide Visibility into Operations
- Integrates Field Equipment, MES and IT Data
- Higher Level of Security for Entire Operation
- Rich Visualization with 2D, 3D and GEO SCADA
- Improved Project Management and Deployment
- Investment Protection with Unlimited Scalability
- High Availability through Multiple Redundancies
- Fast Plant Hyper Historian with Performance Calcs

“Future-proof your HMI/SCADA & Analytics Investment”
Founded in 1986, ICONICS is an award-winning independent software developer offering real-time visualization, HMI/SCADA, energy, fault detection, manufacturing intelligence, MES and a suite of analytics solutions for operational excellence. ICONICS solutions are installed in 70% of the Fortune 500 companies around the world, helping customers to be more profitable, agile and efficient, to improve quality and 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 & gas, renewable energy, utilities, water/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 300,000 applications installed in multiple industries worldwide.