

iFIX 2022 from GE Digital

Improve productivity and process control with industrial-strength SCADA and High Performance HMI



High Performance HMI/SCADA increases productivity & control

With just a glance, operators should be able to recognize which information requires their attention and what action needs to be taken. They need to know quickly what problems have arisen and how they can be addressed efficiently. You can enable smart operators with proven and innovative iFIX HMI/SCADA. Used by thousands of industrial organizations around the world, iFIX is part of the Proficy family from GE Digital and delivers faster time to insight and greater efficiency for your operations while speeding time-to-value for system integrators.

iFIX 2022 offers new capabilities to reduce time to solution, decrease total cost of ownership, and empower the connected worker. These enhancements include modeling improvements to support equipment variability, simplified browsing of PLC and control systems via OPC UA and IGS, faster updates with the Quick Installer, and more. iFIX 2022 also reduces costs with improved single-server scale. Additionally, iFIX 2022 supports cloud infrastructures to reduce hardware costs, centralize operations, and facilitate remote access for greater visibility and uptime.

Outcomes

- Reduce development and deployment time and costs with Object Orientation in a unified Web-based configuration environment – including the ability to automatically create iFIX and Proficy Historian tags
- Speed operator response with modern screens, centralized visualization and ISA 18.2 alarm management
- Reduce troubleshooting time with higher situational awareness, using High Performance HMI layouts and context-driven navigation based on a model structure
- Improve output for OEMs, system Integrators and end users with flexibility and extensibility – easy-to-create, repeatable projects
- Minimize maintenance time and costs with Web-based configuration
- Provide real-time data feeds to your supply chain through secure-by-design, standards-based communications
- Ensure highest reliable uptime with native SCADA redundancy

01 Speed development with Object Orientation in centralized Web-based configuration

iFIX's Object Orientation in a centralized Web-based configuration environment allows users to quickly connect to structured data sources like PLCs; browse the PLC asset hierarchy as well as other IGS and OPC UA data sources; create objects, model templates such as tanks and pumps, instances of objects, and PDB tags; use a modern Web-based structured database manager; and visualize iFIX pictures and graphical objects in model context. You can significantly reduce configuration by automatically creating tags in iFIX and Proficy Historian.

Access and manage the data from all of your iFIX nodes across your network from a single Web browser instance, using secure-by-design digital certificates and ensuring trust between the Web client and SCADA servers. Multiple HMI/SCADA developers can work simultaneously on the same project from a Web browser anywhere on the network. Audit logs and visualization clues track changes to help ensure compliance to your highest corporate standards.

02 Leverage templates for process industries and High Performance out of the box

To help engineers quickly create the right user experience, iFIX provides modern sample systems (Water/Wastewater, Food & Beverage, Pharmaceuticals, Chemicals, Power) as well as predefined objects and templates designed using High Performance HMI concepts. Take advantage of rich, ISA standards-based capabilities such as High Performance Dynamos, alarm shelving, and model-based visualization that decrease development time and costs while improving operator response for higher uptime and quality.

03 Achieve visualization where you need it, anywhere, any time

Thanks to our wide range of HTML5-compatible clients such as Proficy Webspaces and Proficy Operations Hub, iFIX screens can be used to deliver information anywhere, any time, on a desktop, tablet, or smartphone – regardless of the form factor.



Designed to the High Performance HMI guidelines, iFIX 2022 improves operator decision making and speeds response.

04 Reduce risk with secure-by-design technology and best practices

iFIX leverages open and secure standards such as OPC UA, digital certificates, and Web tokens, which means you can deploy with confidence. Based on GE Digital's Red Team Penetration testing, iFIX further reduces security risks with ACL permissions on files, shared memory and registry settings; awareness of install updates when upgrading through automatic prompts; and other improvements. Additionally, rely on GE Digital's iFIX Secure Deployment Guide for best practice recommendations.

"iFIX is the easiest way to hook to a variety of things ... We haven't found anything that iFIX couldn't overcome."

John Franklin, Logic Systems Administrator, Arizona Electric Power Cooperative

iFIX 2022 from GE Digital



Flexible, configurable, and secure-by-design, iFIX is powerful, industrial-strength SCADA

Features

New in Version 2022

Reduce time to solution

- Modeling enhancements (substitution and expression support) to support equipment variability
- Simplified browsing of PLC and control systems via OPC UA and IGS
- Reduce time for updates – Quick Installer
- Simplify authentication management and improved security – SSO, nested AD groups

Reduce total cost of ownership

- Unlimited client offering for small/mid applications (iFIX Complete)
- Reduced hardware costs through cloud infrastructure (Azure VM, AWS VM and hybrid cloud)
- Improved single server scale – 64,000 tags per data type

Empower the Connected Worker

- Build iFIX pictures once and use across same equipment type
- Centralize operations and facilitate remote access using cloud infrastructure

iFIX HMI/SCADA: Industry-Leading Innovation Used by Thousands of Organizations Around the World

- Open and flexible client / server HMI/SCADA that provides machine-level and supervisory control of process equipment
- High-speed scanning, alarm and control with modern, ISA 101 High Performance visualization
- Provides operators with the right information at the right time to keep plants running with high efficiency
- Complete library of visualization tools to support any situation, applied in dozens of industries
- Variety of client options, native thick and thin
- Available options for high availability, alarm notification, and CFR 21 Part 11 support (eSig)
- Scalable – flexible sizing to unlimited points / tags, enterprise visibility & highly distributed architectures
- OPC UA server included along with native OPC UA client driver (optional)
- Leverage over 70 basic drivers with our Industrial Gateway Server (IGS) option
- [Proficy Operations Hub](#) integration: publish model and mimics from iFIX, build new Web-based mimics by browsing data

- Object orientation: native modelling in iFIX
- Central Web-based configuration: unified Proficy development environment to configure your iFIX node
- Web DBM: Web-based database manager, modern look and feel, improves productivity
- High Performance HMI featuring dozens of pre-wired Dynamo libraries to jump start development. Also includes Water, Food & Beverage, Pharmaceuticals, Chemicals, and Power packaged examples
- Native high availability option to reduce downtime through SCADA Synchronization
- ISA 18.2 alarm shelving
- iFIX for IOT (embedded)
- Local, remote over LAN, WAN, or Internet, including VPN
- Encrypted communication from your Web client using SSL / digital certificate, IT security friendly, cloud ready
- Best-in-class and fully integrated optional solutions
 - [iFIX Complete](#), unlimited clients & iFIX reliability
 - [Proficy Historian Essentials](#), permanent storage of time-series data generated by your SCADA system
 - [WIN-911 Essentials](#), industry-leading alarm notification
 - [Proficy WebSpace](#), native iFIX experience in a browser
 - [iFIX Productivity Tools](#), free with iFIX Standard and Plus

iFIX's Object Orientation

Connect

Structured data sources like PLCs

Browse

Asset hierarchy in PLC

Create

Objects, model templates, instances of objects and PDB tags

Use

A modern, web-based Database Manager

Visualize

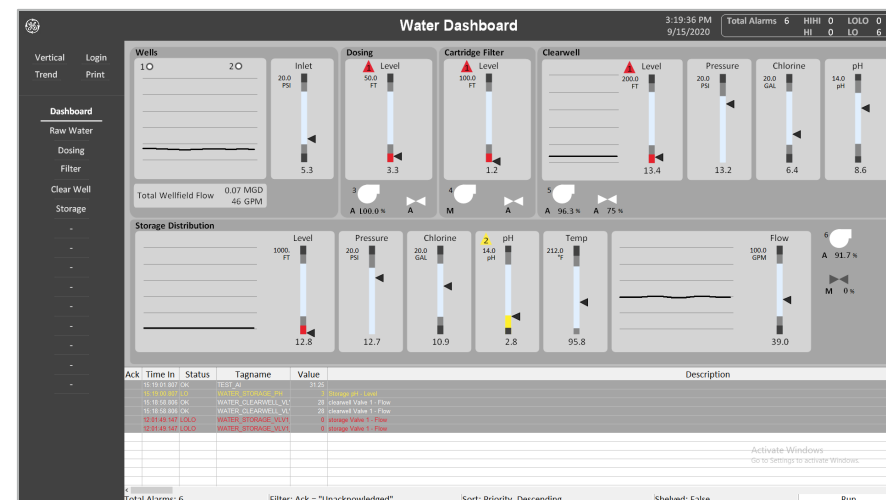
iFIX pictures and graphical objects like alarm grids in model context

Continue

to view / use all previously built iFIX application components as is or with model

For Hardware and Software Requirements information, please consult the online [product documentation](#).

With iFIX, you can modernize operations to better enable your teams, reducing costs and risk with High Performance innovation.



Today's SCADA is not just monitoring and visualization with alarms rolling in. iFIX 2022 can optimize your operations for active decision support – enabling your team to achieve critical business outcomes.

LEARN MORE

iFIX 2022 from GE Digital



Improve operational productivity by enabling High Performance, model-based visualization

Services

In the world of Industrial Internet of Things (IIoT), organizations are able to optimize productivity, reduce costs, and achieve Operational Excellence. While this is an exciting time for opportunity and growth, it can also bring on new challenges, questions, and uncertainty. No matter where you are on your IIoT journey, GE Digital has the right services offering for you.

Advisory Services We can help you plan and start your IIoT journey in a way that aligns to your specific business outcomes.

Managed Services We can help you maintain your critical machines from one of our remote locations around the world using model-based predictive analytic technology.

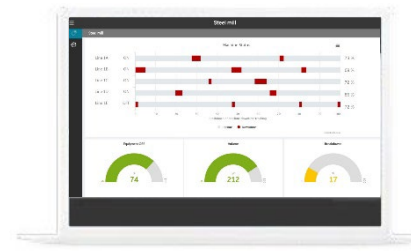
Implementation Services Our experienced global Automation partners can implement a collaborative, multi-generational program that marries your existing investments to the right enhancements and technology.

Education Services We specialize in education services to ensure that you're leveraging our solutions to the fullest extent with our training and certificate programs.

Acceleration Plans Let us help by ensuring that your business continues to operate at its highest efficiency, all while mitigating risks to your investments.

Unified and Integrated Proficy Products for Your Digital Transformation Journey

GE Digital's unified and integrated Proficy suite helps you precisely monitor, control, and visualize every aspect of your operations, enabling operators to make the best decisions faster. Transforming your business requires foundational innovations that lay the groundwork for future success.



[Proficy Operations Hub](#)

A centralized environment for aggregating and visualizing contextual and situational information for industrial applications – supporting rapid application development and rich displays for faster operational response and better decision making.



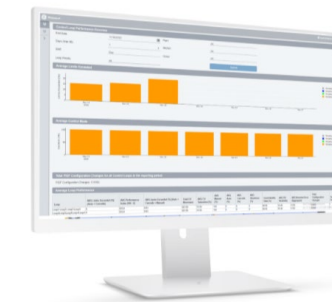
[Proficy Batch Execution](#)

With Batch Execution, gain the security, flexibility, and ease of use you need to reduce costs, increase quality, and boost profitability.



[Proficy Historian](#)

Optimize asset and plant performance through time-series and A&E industrial data collection and aggregation. Improve decision-making with advanced trend analysis.



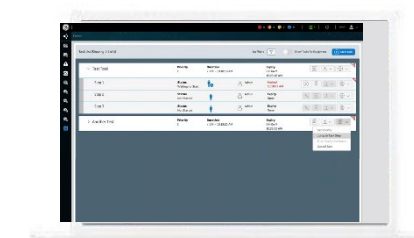
[Proficy CSense](#)

Optimize with 5-in-1 industrial analytics capabilities in a closed-loop solution, allowing process engineers to analyze, monitor, predict, simulate, and optimize and control setpoints in real time.



[Proficy Plant Applications](#)

Maximize overall equipment effectiveness (OEE), improve production scheduling, and ensure product quality by leveraging real-time production data.



[Proficy Workflow](#)

Guide operators with dynamic, interactive electronic work instructions and eSOPs for more consistent operations and optimized processes.

About GE

GE (NYSE: GE) is the world's Digital Industrial Company, transforming industry with software-defined machines and solutions that are connected, responsive and predictive. GE is organized around a global exchange of knowledge, the "GE Store," through which each business shares and accesses the same technology, markets, structure and intellect. Each invention further fuels innovation and application across our industrial sectors. With people, services, technology and scale, GE delivers better outcomes for customers by speaking the language of industry.

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