



iFIX 6.1 from GE Digital

Improve operational productivity by driving decision support with High Performance visualization

High Performance HMI/SCADA increases efficiency & reduces costs

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 new fourth-generation HMI/SCADA. The new iFIX 6.1, part of the Proficy family from GE Digital, leverages the latest technologies that help deliver faster time to insight and greater efficiency for your operations while speeding time-to-insight for system integrators.

iFIX 6.1 offers several core enhancements to decrease deployment time, while increasing operational efficiency in a highly secure-by-design method to improve equipment uptime and reduce cost and risk. These enhancements include a new native OPC UA client driver, web-based configuration with automatic tag population in the iFIX database, new High Performance alarm-related Dynamos, and more.

Outcomes

- Ease connectivity and reduce deployment time with a native OPC UA client and HTML5 browser-based configuration with tag auto-population
- Speed response with modern screens 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
- Enable action anywhere, anytime with native responsive web design
- Minimize maintenance time and costs with zero deployment clients
- Provide real-time data feeds to your supply chain through secure-by-design, standards-based communications
- Enable superior design flexibility for consumption of third-party HTML5 content

01 Improve connectivity and deployment with native OPC UA and Web-based configuration

iFIX 6.1 introduces a new native OPC UA client driver, which can be added to any iFIX server. As a native driver, this new option offers higher performance. Once added to the iFIX SCU, users can configure the server, groups, and tags using a new HTML5 browser-based configuration tool. iFIX 6.1's powerful new HTML5 native web client allows users to configure the connection to the OPC UA server, browse for data sources, select a set of tags, and automatically populate the iFIX database with the new tags. This new Web-based configuration also supports High Availability SCADA synchronization out of the box.

02 Find information easily with a context-rich HMI based on the model structure

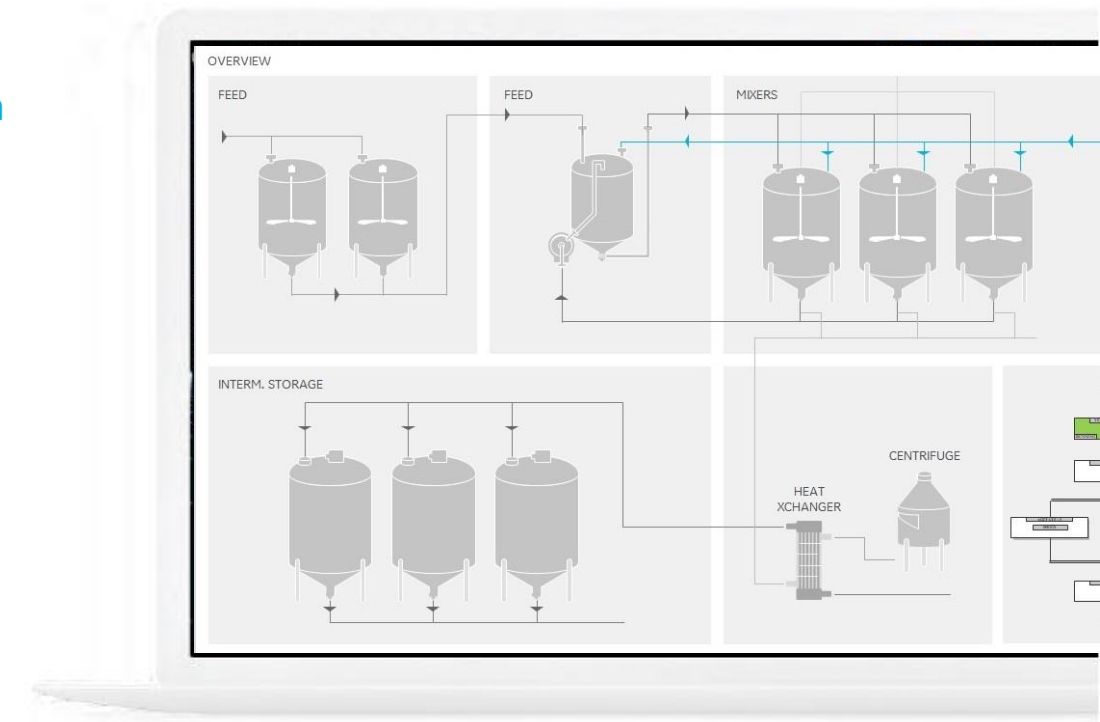
This context-rich HMI changes as the user moves through the system. Navigation is derived from the model structure built by the engineer. The context follows the asset definition and is defined only once for a class of assets. This prescribed experience provides operators with relevant information – in context – and minimizes the effort to find it.

03 Reduce time to solution with High Performance HMI out of the box

To help engineers create the right user experience, iFIX 6.1 contains predefined objects and templates designed using High Performance HMI concepts. With Version 6.1, iFIX High Performance Dynamos include new support for alarm operating limits. Users can add and enable smart alarm limits to horizontal and linear gauges and tanks.

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

Thanks to our wide range of HTML5-compatible clients such as Webspaces and Web HMI, 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 6.1 improves operator decision making and speeds response.

05 Reduce risk with secure-by-design technology

iFIX leverages open and secure standards such as OPC UA, digital certificates, and Web tokens, which means you can deploy with confidence. Take advantage of 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





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Features

- **New in Version 6.1:** native OPC UA client driver (optional) to connect to an OPC UA Server; HTML5 native web client that allows users to configure connection to OPC UA Server, browse for data sources, and automatically populate the iFIX database with new tags; High Performance Dynamos now support working with alarm operating limits including Display Alarm Limits and Enable Smart Limits; ability to create a common Historian server configuration that can be used across multiple Windows user accounts; support for iFIX users (both native and Windows) to automatically log into iFIX; and more. See product documentation for additional information.
- Time lapse playback
- High Performance Dynamos and other features at your fingertips for Efficient HMI
- Available options for high availability, alarm notification, and CFR 21 Part 11 support (eSig)
- Optional Web HMI
- Structured asset model mapped to the SCADA database
- HTML5 object library for a more efficient HMI and HTML5 content generation from the workspace
- Base API to consume external HTML5 content
- Standard layouts and cards on topics such as trends, alarms, KPIs, and more
- Multi-touch alarm and trend viewer
- Local, remote over LAN, WAN, or Internet connections, including VPN
- Encrypted communication from your Web client using SSL / digital certificate, IT security friendly, and cloud ready

Hardware Requirements

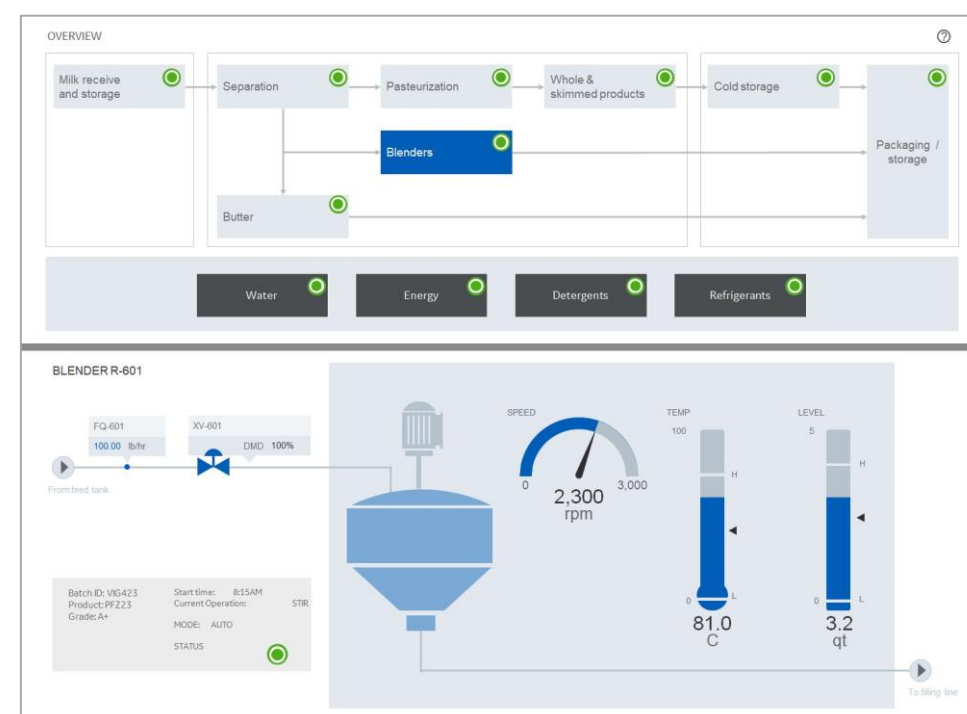
The following Hardware Requirements are not comprehensive. Please refer to the Getting Started Guide or Product Manager for complete requirements information related to your application.

- A 2.4 GHz Intel Core2 Duo Processor or better computer. For better performance, GE Digital recommends a minimum 3 GHz computer with 4 GB memory or better is needed. Be aware that the computer must be at least dual core; a single core is not supported (with or without hyper-threading).
- A minimum of 2 GB RAM. For better performance, please consider using more.
- A minimum of 10 GB of free hard drive space for iFIX pictures, databases, alarm files, and other data files.

Software Requirements

- Qualified HTML5 browsers
- One of the following operating systems:
 - Microsoft Windows 10
 - Microsoft Windows 8.1 (32-bit or 64-bit)
 - Microsoft Windows 10 IoT Enterprise Edition with LTSC/B or Windows 7 Embedded for iFIX 6.1 IOT licenses only
 - Microsoft Windows 7 (32-bit or 64-bit)
 - Microsoft Windows Server 2019
 - Microsoft Windows Server 2016
- Network interface software for TCP/IP network communication and certain I/O drivers.
- An I/O driver for SCADA servers. GE Digital supplies I/O drivers for many programmable controllers.

Hardware and software requirements are representative and may vary by customer deployment. Please consult the product documentation for more details.



Today's SCADA is not just monitoring and visualization with alarms rolling in. iFIX 6.1 can optimize your operations for active decision support – enabling your team to achieve critical business outcomes.

LEARN MORE

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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.

[Security Services](#) Our solutions provide industrial-grade security for a wide range of OT network and application topologies.

Related Products

GE Digital's Proficy suite helps you precisely monitor, control, and visualize every aspect of your operations, enabling operators to make the best decisions faster.



[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.

Continue your Digital Transformation journey

Transforming your business requires foundational innovations that lay the groundwork for future success. It requires connecting assets and processes securely to drive operational efficiencies, reduce unplanned downtime and improve performance.

PREDIX

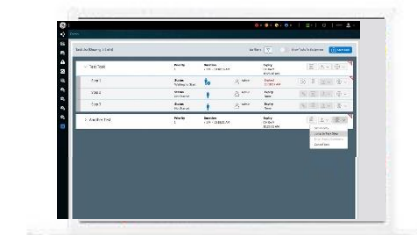
[Predix](#)

Innovate and transform your business with the cloud-based operating system for the Industrial Internet, purpose-built for industry.



[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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