Proficy Operations Hub 2.0 from GE Digital

Modern, centralized environment for rapidly building industrial applications for Web-based intelligence

Enable collaboration and continuous improvement with centralized visualization/configuration, digitized processes, and business intelligence

Proficy Operations Hub from GE Digital is a centralized environment to rapidly build industrial applications (data connectivity, aggregation and visualization), enabling improved plant operations through comprehensive information that's easier to analyze and act upon independently of location.

With Proficy Operations Hub, teams across all levels in an organization can increase operational efficiency and make better decisions based on real-time and historical plant-wide application data, including historian, MES, analytics, and third party. Users can monitor, control, provide data entry, and perform analysis all through Proficy Operations Hub.

The new Version 2.0 offers:

- 60% faster configuration with enhanced ease of use
- 40% enhanced data analysis capabilities including new widgets and enhanced Trend Analysis
- 100% improved performance including Query interface and Data Distributor enhancements
- 333% increased scale on a single server with up to 1,000 Concurrent Clients on a single server

Outcomes

- Improve collaboration and continuous improvement programs with a cross-business, easily accessible digital operations hub
- Rapid development of Web-based displays for operations
- Faster response and better decision-making with centralized visualization, digitized processes, data analysis in context, and task lists
- Decreased costs and time-to-market for creating Web-based operations applications
- Lower maintenance costs with centralized Web applications
- Information anywhere, any time with responsive design

01 Accelerate development of rich Web applications with code-free configuration

Proficy Operations Hub allows both developers and non-developers to quickly assemble displays through a comprehensive library of widgets and arrange them to provide responsive operator visualization. You can easily define data sources and entities for connected devices and create queries to access and transform data into actionable information for operations. Drag-and-drop design allows for simple placement and configuration of visualization components on the display, then dragging the query or data source onto the component quickly enables the data connections.

02 Deliver actionable information with a cross-business digital operations hub
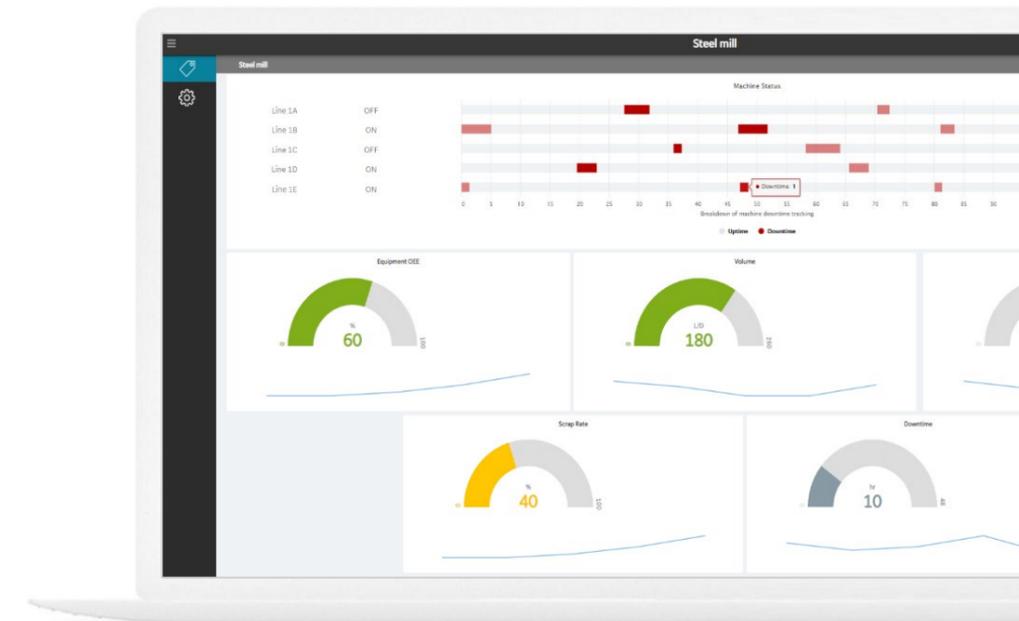
Proficy Operations Hub shares information across frontline workers, empowering them with knowledge of what is happening. The software enhances accessibility across roles and locations, providing critical information including trends for improved response and real-time task lists. The solution also makes it easy to collect data from operators, facilitating interaction and sending commands back to connected interfaces. Operators can monitor, control, analyze, and more.

03 Information at your fingertips

Responsive design allows you to build the application, so information is readily available on PC displays, tablets, and mobile phones, allowing access to information and insights into your operations from anywhere, any time.

04 Fast, automatic response based on IIoT data

Proficy Operations Hub allows you to trigger automatic actions based on human events or device or system data. You can configure actions to drive data queries, send emails, or send commands to devices.

With Proficy Operations Hub, you can leverage powerful, code-free development tools to quickly assemble High Performance, Web-based applications, enabling collaboration and continuous improvement.

05 Save time with zero deployment clients, centralized management & standards

Leveraging Web technology and open standards such as OPC UA for interoperability, Proficy Operations Hub reduces deployment and maintenance time. The true native Web clients do not require any client installation. Deploying and maintaining have never been easier.

"Proficy Operations Hub accelerated time to value as we developed and delivered an expanded remote and local monitoring and control solution for ENGIE, a major energy company serving millions of customers. We leveraged this highly flexible software including RAD capabilities in conjunction with the Proficy portfolio to create reusable objects and High Performance HMI operator screens, GIS functionality, dashboards, and more."

Sven Simons, Manager, Industrial IT Business Unit Control & Protection Automation nv

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Features

- Develop, manage, and deliver applications that collect, display, and analyze data from equipment or servers – without needing programming skills

- Monitor, control, data entry, analysis, and task management capabilities

- Democratized tool for cross-business access

New in Version 2.0

- Tighter integration with the Proficy family

- Additional connectivity including OPC UA

- Ease of use: all connectors to all (*) widgets, move pages between Apps, access page via URL

- New widget: date/time picker

- Trend widget enhancements: re-fetch on pan/zoom and statistic window, pen colors line style, unlimited sample size, control limits (min, max, target)

- Up to 1,000 Concurrent Clients on a single server

Proficy Operations Hub: Rapid development in a code-free environment

- Proficy family integration: iFIX, CIMPLICITY, Proficy Historian, Proficy Plant Applications, Proficy CSense, Proficy Batch Execution, Proficy Workflow

- Data Management: Modeling including Entities and Pivot Tables; Queries, events, and notifications

- User-friendly WYSIWYG App Builder with a rich development library including extensive widgets and drag-and-drop configuration. Responsive layouts per page (Web, mobile, tablet). Actions, Conditions, and Formulas. QR code navigation for mobile.

- Role-based permissions at the page level

- Connectivity: OPC UA, relational databases, time series, Historian, REST, MQTT, URL

- Trend Analysis App to improve root cause detection and collaborative analysis by providing ad hoc trending & KPI dashboards from Historian data. Feature-rich app for data analysis in model context

- Task Lists on an asset with context. View and act on tasks in real time with Proficy Workflow integration

- SDK for custom widgets and entities REST API

- ISA 18.2 and ISA 101 for improved operator performance

- Model and flat tag support

- Web-based technologies, cloud, and Docker: Deployment, product updates, accessibility/mobility, improved collaboration, and lower IT costs

- Security: AD and shared UAA support

- High Performance HMI Runtime

- Trigger automatic action based on events and data

- Excel Add-In for detailed queries by model, asset, type, and flat tag

- Access using PC displays or mobile devices

- HTML5 and CSS3 for platform independence

- Languages: English, Japanese, Chinese, Korean, Spanish, German, Russian

Software Requirements

Supported Operating Systems

Servers:

- Microsoft Windows Server 2019
- Microsoft Windows Server 2016

Client Operating Systems:

- Microsoft Windows Server 2019
- Microsoft Windows Server 2016
- Microsoft Windows Server 2012
- Microsoft Windows 10 Pro
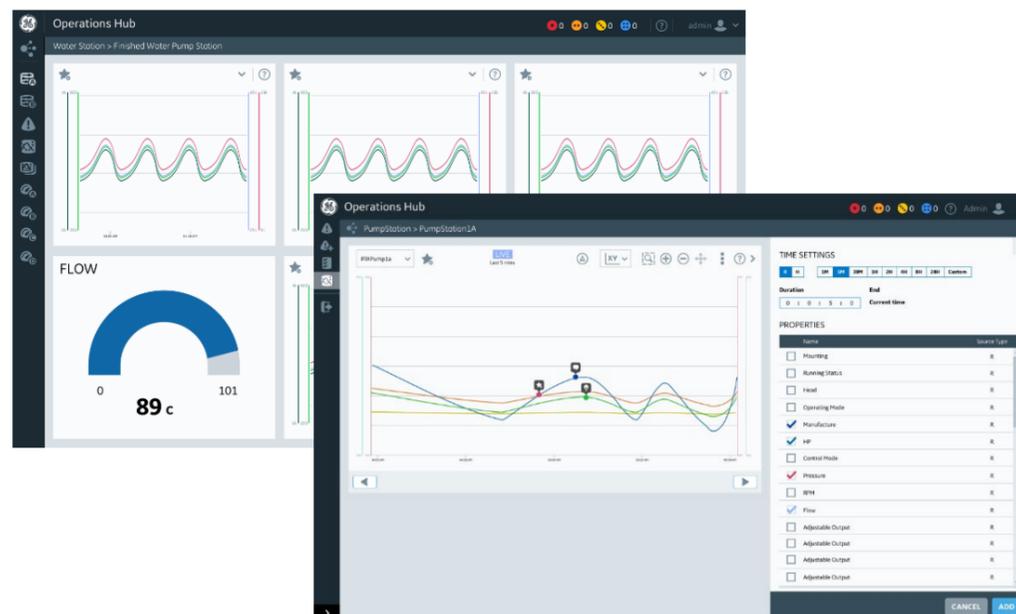- Microsoft Windows 8.1 Pro

Hardware Requirements

The following hardware requirements are not comprehensive. Please refer to the Getting Started Guide or GE Digital for complete requirements information related to your application.

Minimum Server Requirements:

- 4-core CPU
- 16GB RAM

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

Proficy Operations Hub's Asset Model mapping and new Trend Analysis App provide data analysis in context.

Take advantage of a centralized environment for aggregating and visualizing contextual and situational information for industrial applications – without needing IT or coding resources. Proficy Operations Hub supports rapid application development and rich displays for faster operational response and better decision making.

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 for Your Digital Transformation Journey

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. Transforming your business requires foundational innovations that lay the groundwork for future success.

iFIX
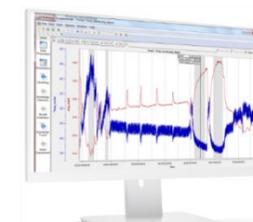Gain visibility into your operations and secure agility for smarter decision making that drives results.

Proficy CSense
Turn raw data into real-time value with a digital Process Twin and proven industrial analytics software

CIMPLICITY
Drive real-time visibility for smart operators with true client-server based visualization and control.

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

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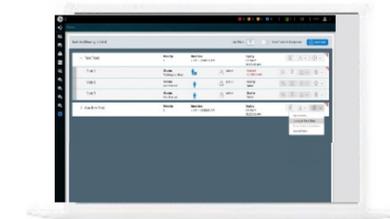
Proficy Workflow
Guide operators with dynamic, interactive electronic work instructions and eSOPs for more consistent operations and optimized processes.

About GE

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