

Proficiency Operations Hub Software



Modern, centralized environment for rapidly building web-based applications



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

Proficiency Operations Hub from Velotic Software 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 independent of location.

With Proficiency 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 and third party. Users can monitor, control, provide data entry, and perform analysis all through Proficiency Operations Hub.

The new Version 2025 offers real-time Task Lists on assets with context, support for relational databases, and scalability, performance, and security enhancements. The solution also includes the Advanced Historian Trend Analysis App for data analysis in asset model context, Proficiency Plant Applications widgets, and support for English, Chinese, Japanese, Korean, Spanish, German, Russian, and Czech.

With Proficiency Operations Hub, organizations gain a foundation for insights into operations and productivity, a critical step in the journey to digital transformation.

Accelerate development of rich Web applications with code-free configuration

Proficiency Operations Hub allows both developers and non-developers to quickly assemble displays through a compre-

hensive 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

Deliver actionable information with a cross-business digital operations hub

Proficiency Operations Hub shares information across front-line 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.

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.

Fast, automatic response based on IIoT data

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

Save time with zero deployment clients, centralized management & standards

Leveraging Web technology and open standards such as OPC UA for interoperability, Proficiency 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.

“HMI/SCADA software is increasing its role as an integration and business intelligence hub, providing connectivity and visualization to business, engineering, supply chain, and CPM/MES software systems in addition to its traditional display and control role for plant equipment and automation systems located throughout factories and plants globally.” - ARC

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 Versions 1.7, 1.6 and 1.5
- Task Lists on an asset with context. View and act on tasks in real time with Proficy Workflow integration
- 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
- Connectivity: Relational databases, Historian, REST API (PUT, POST, DELETE, GET), MQTT, URL
- Model and flat tag support
- Language support: English, Japanese now available. August 2020 Language Pack additions: Chinese, Korean, Spanish, German, Russian, Czech
- Proficy Operations Hub Designer: Rapid development in a code-free environment
- Proficy family: Proficy Historian integration and Advanced Historian Trend Analysis App, Proficy Plant Applications integration and widgets, Proficy Workflow integration and Task Lists
- 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
- SDK for custom widgets and entities REST API
- REST and MQTT: Discovery, configuration and data

exchange

- ISA 18.2 and ISA 101 for improved operator performance and safety
- Time-series data connectivity
- 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
- Future Connectors include: iFIX, CIMPLICITY, Proficy Batch Execution, OPC UA
- Future Visualization Content includes: Alarm Analysis, HMI Widgets, Charting Types (Pareto, Histogram, Event Trend, Heatmap, Radar, Spiderweb)

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

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