



Did You Know?

Proficy Historian and Operations Hub:
Data Analysis in Context

Introduction

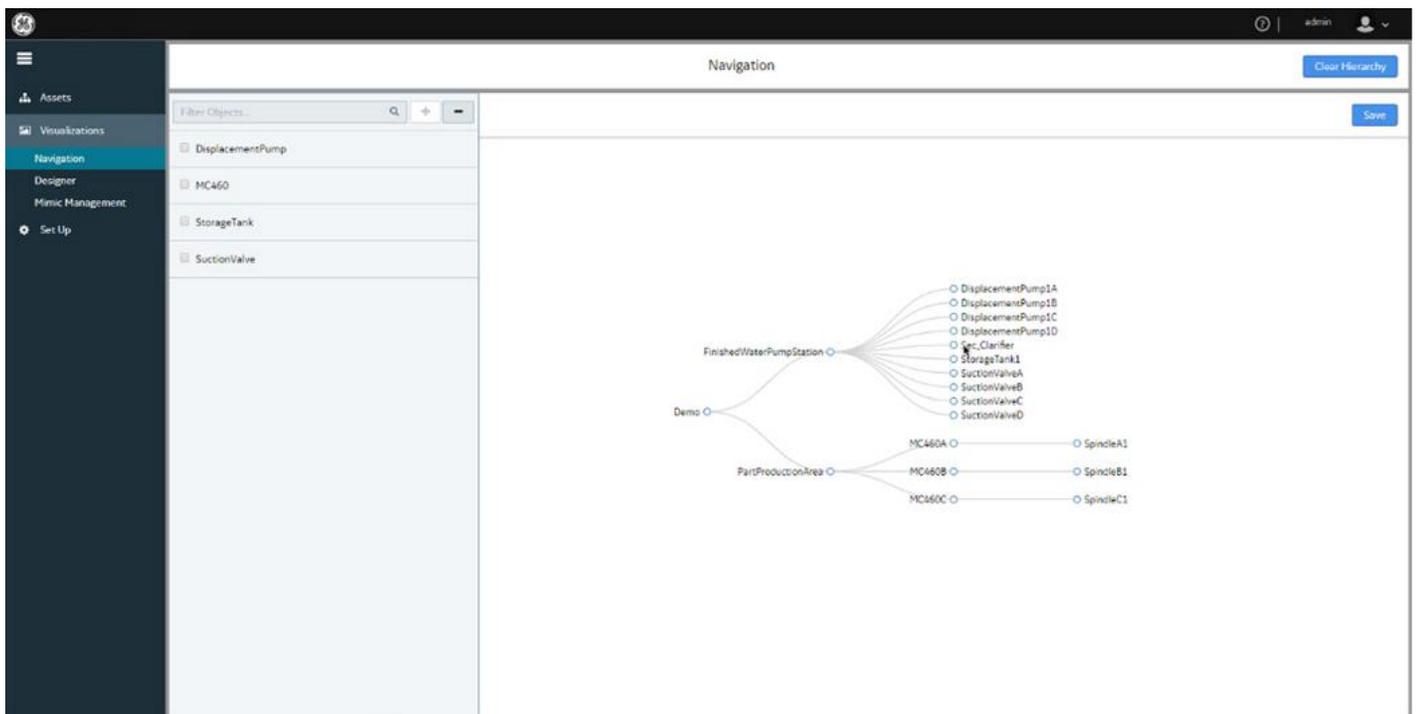
The combination of Proficy Historian and Operations Hub provides a powerful data management solution with asset model context and visualization.

With Proficy Historian and Operations Hub, you achieve:

- Aggregation of data across multiple data sources or Historians
- Asset model context to data
- New advanced trend analysis of Historian data

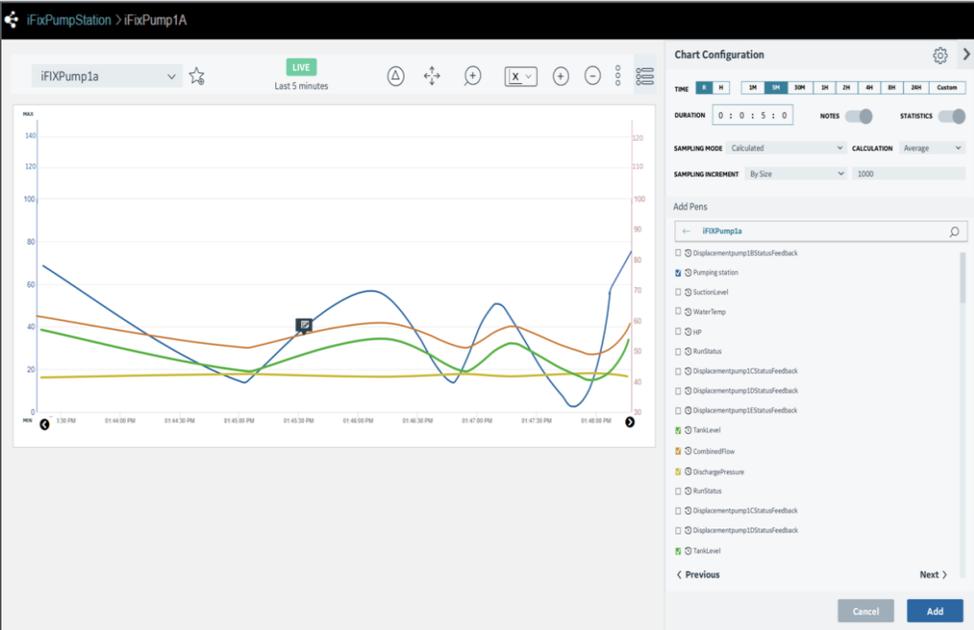
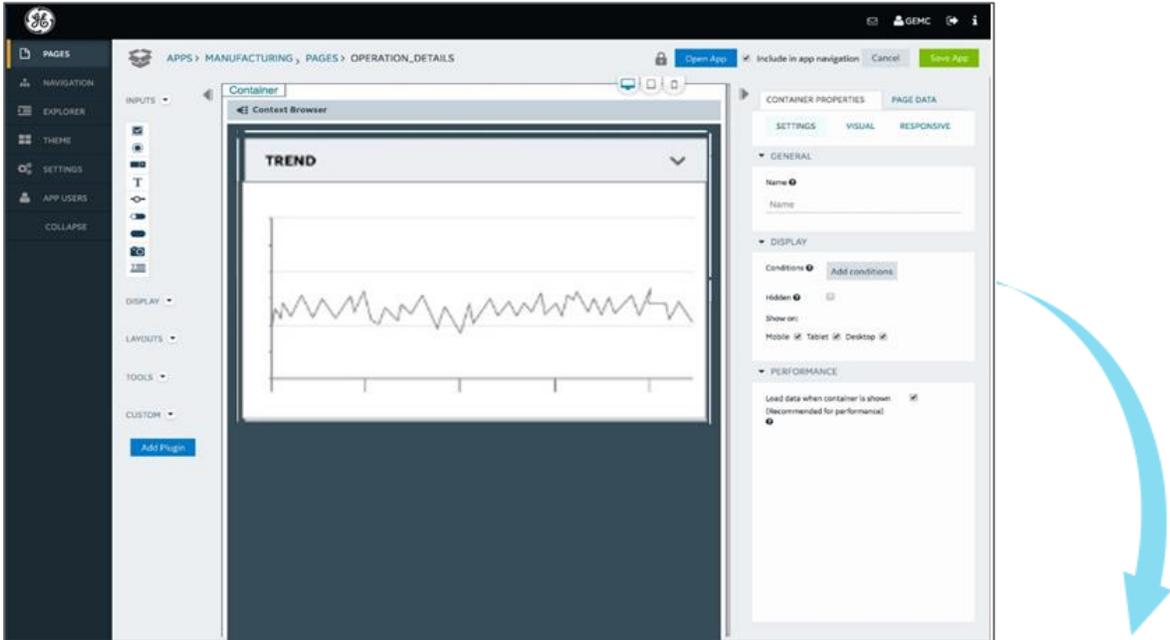
With the release of Proficy Historian 8.0, Historian users have greatly expanded functionality – including the Operations Hub Server and Analysis app with advanced Trend Analysis capability.

Shown below, the Asset Model Configuration Editor allows users to easily configure an asset model in Operations Hub that provides context to Historian data.



Advanced Trend Analysis

With Proficy Historian and Operations Hub, you can quickly move from code-free configuration to advanced trend analysis using the built-in Trend Analysis card. Data is displayed in the context of the asset model.



Trend Analytics

Trend Analytics include:

- Query by Model and Flat Tags Support
- Out-of-Context Model with Pen Support
- Favorites
- Annotations
- Multiple Slider Support
- Statistics (Min, Max, Avg, Std Dev, and Total)
- Print Chart
- Export to CSV

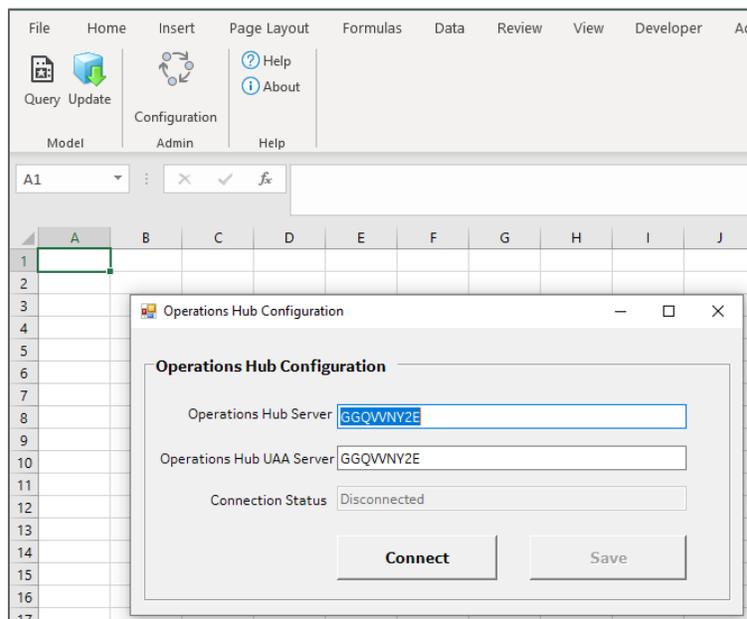
Excel Add-In for Operations Hub

Operations Hub can act as a bridge to many data sources, including multiple Historians. For easy data querying, the Excel Add-In enables:

- Query Model
- Query Data by Asset
- Query Data by Type
- Query Data by flat tag

Configuration Screen

The Configuration Screen has Connect and Save buttons. Save updates the registry default values. Connect brings up the log-in page and allows the user to connect to Operations Hub and get the token to be used in the query.



Query Window

The screenshot shows the 'Build Query' window with the following components:

- Operations Hub Model/Server:** GGQVVNY2E, with a **Reconnect** button and a **Connected** status indicator.
- Object Type:** A dropdown menu set to 'Car' and a **Reset** button.
- Properties:** A tree view showing a hierarchy: Car (expanded) -> Engine -> Nuts2 -> Thickness, Circumference, Capacity (checked), EngineType, Compressor -> Pressure, Manufacturer, Piston -> Material, Conductivity (checked), Nuts -> Thickness, Circumference, Tyres -> Material (checked), Durability (checked). A context menu is open over the Piston node with options: Check All, Collapse All, Expand All, Export Metadata, and Uncheck All. Below the tree, it says 'Total Properties: 26'.
- Objects:** A list of objects: Car_1 (checked), Car_2, Car_3, and Test_3. Below the list, it says 'Total Objects: 4' and has **Export** and **Apply** buttons.
- Selected Objects & Properties:** A list of selected paths: Car_1.Engine.Capacity, Car_1.Engine.Compressor.Piston.Conductivity, Car_1.Tyres.Material, Car_1.Tyres.Durability, Car_3.Engine.Capacity, and Car_3.Engine.Compressor.Piston.Conductivity.
- Data Filter & Display:** Includes 'Duration' (From: 10/16/2019 03:13:09 PM, To: 10/16/2019 03:13:09 PM), 'Sampling Mode' (dropdown), and 'Calculation Mode' (dropdown). A **Get Data** button is present.



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.

Contact Information

Americas: 1-855-YOUR1GE (1-855-968-7143)

gedigital@ge.com

www.ge.com/digital

©2019 General Electric. All rights reserved. *Trademark of General Electric. All other brands or names are property of their respective holders. Specifications are subject to change without notice. 10 2019