Canary

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Axiom

- Multi-platform; from desktop to smartphone
- Create custom dashboards
- Centralized management
- Ad hoc trending and calculations

Overview

The Axiom visualization tool allows users to analyze both real-time and historical time-series process data. Completely customizable, Axiom allows the individual user to quickly create custom dashboards and trend charts, record annotations, build ad hoc calculations, and share their findings with ease.

Connectivity

The Axiom Core communicates with the Canary Enterprise Historian via the Canary Views Service. For security purposes, Axiom uses HTTPS for browser clients and Windows username credentials for desktop clients. Axiom can also connect to other historical databases using HDA and UA.

ClickOnce technology is used to automatically update client applications across the organization. Pointing to the repository that contains the desktop application install, ClickOnce ensures that all desktop applications are updated to the newer software version the next time they are launched.

Customization

The power of Axiom is the flexibility that it gives the user. Data can be visualized in many ways and on many different platforms. The Axiom Designer allows you to create custom

dashboards that can be filled with trend graphs, graphics, gauges, value boxes, and tables.

Scripting can also be used to accomplish a variety of tasks. C# scripts can convert values, change source tags for widgets or trends, load other screens and more. With the Axiom designer, if you can dream it, you can create and display it.

Multi-Platform

No matter the device, Axiom is designed to deliver information cleanly and without derogating from the user's experience. Axiom's desktop application will allow for laptop and workstation access, but it is the browser application that offers ultimate flexibility for active users.

Connect to Axiom browser via tablet or smartphone without any need to download and install an application. To increase ease of use, the Axiom browser session is responsive; automatically resizing the screen content to fit your device. To better enhance the experience, the browser session was designed around touch functionality. Now you can easily load charts, add trends, create high/low limits, run ad hoc calculations, and more from your tablet or smartphone.

Feature Rich

Built around user requests, Axiom offers a host of powerful features that include:

- Event playback – Replay historical events in real-time
- Calculated trends – Run advanced mathematical calculations using tag data
- Chart management – Save trend charts in private or public folders, allowing others read only or read/write access
- Annotations – Write notes that are both user and date/time stamped back into the historian
- Time shifting – Compare live trends to historically time shifted tags
- High/Low Limits – Create visual limits to set thresholds on tag values
- Aggregates – Process trend data with over 30 aggregates
- Exporting – Quickly move all trend data, including calculated trends into Excel for further reporting to analysis

System Requirements

Axiom is comprised of several components. Both the browser and desktop client communicate with the Axiom Core. The core can be hosted on the same machine as the historian or can stand alone on a separate machine. The core receives requests from the clients and then queries the historian. Information is returned to the core from the historian and then distributed to the client.

Specific system requirements for the Axiom Core will depend greatly on the number of concurrent clients connecting to the core as well as the number of new requests made. Requirements are being provided for a larger enterprise system, comprised of 10 concurrent clients frequently updating.

Axiom Core Machine
- Dual Core 2.0 GHz Processor
- 8 GB of RAM
- Windows 7 64 bit or greater
- .NET 4.5 or greater

Axiom Desktop Client
- .NET 4.5 or greater
- Windows 7 or greater

Axiom Browser Client
- Modern browser such as Internet Explorer, Safari, Chrome, or Firefox
- Web server required (Apache is included with install)