aspentech

Brochure

AspenTech Inmation

Unlock the Hidden Value of Industrial Data

Today's leading industrial companies are making better, faster business decisions using data-driven information. How? They are unlocking the hidden value of their industrial data using technology from AspenTech. Inmation connects people, machinery, plants, logistics and products so that they can better communicate and collaborate using their industrial data. To connect these different strands, a unified, flexible, high-performance system provides corporate-wide, real-time, information flow. Inmation securely streams data from manufacturing, process control and IT systems and contextualizes it to transform it. Decision makers across the plant and around the world have access to actionable information, any time, any place and on any device they choose.

- Inmation provides connectivity to operational data from multiple data sources

- Inmation is an OT data management system with enterprise historian capabilities

- Inmation is a scalable OT/IT data connectivity, storage and contextualization platform that liberates and organizes operational data without disrupting to production systems

Connected and Information Management without Vendor Lock In

Inmation technology offers real-time industrial system-integration. As industrial data proliferates, seamless integration between the control systems, MES and corporate IT is necessary. Inmation responds with a middleware architecture that was designed with unlimited scalability in mind. The architecture of a software system consists of more than just interfaces, functions and data handling.

It implements the vision and direction of the developers and ultimately defines the usability and the value proposition for the client. Inmation's architecture is built around this vision so that organizations can leverage existing investments in servers, endpoints, interfaces while assuring that it can respond to technological changes to future-proof investments in technology today.
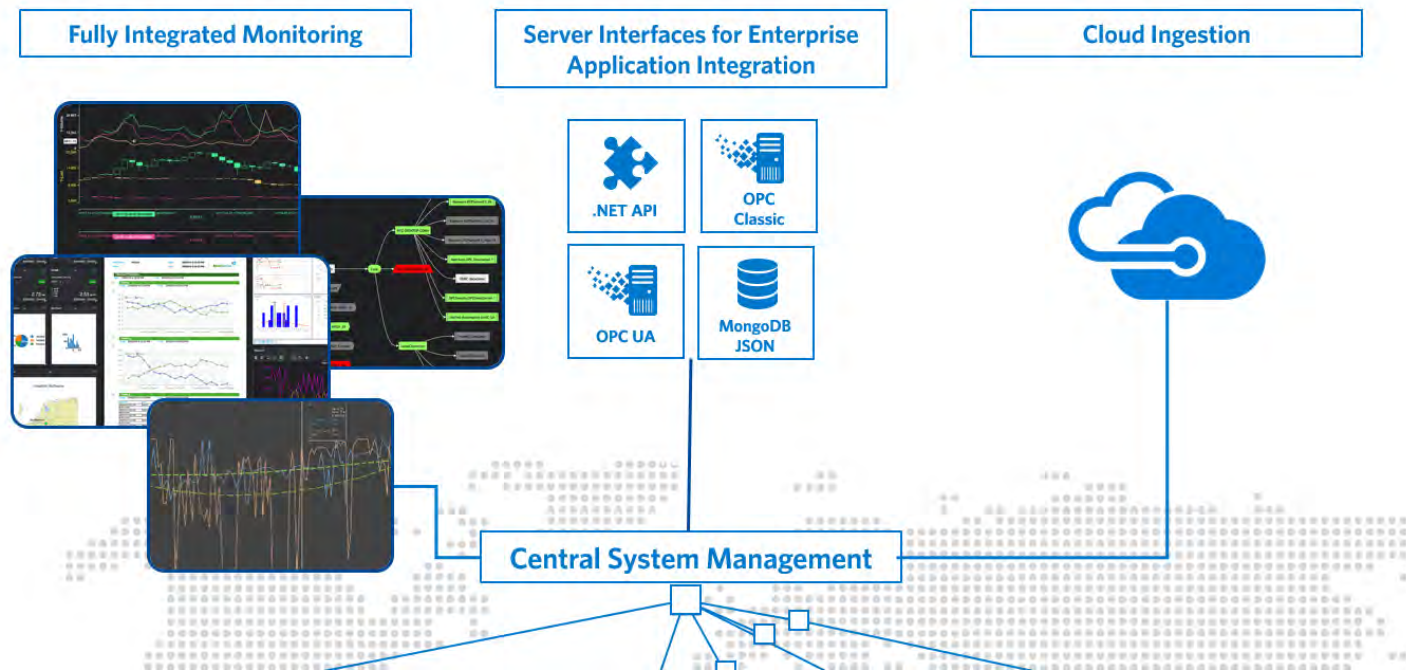
What is AspenTech Inmation?

The heart of Inmation is an engine processing all data in the background in order to execute the necessary consolidation into data-driven information. All operational components and IT systems can be connected, across the plant, enterprise network infrastructure and geographic locations.

With Inmation everything can be seen at a glance. You can review production and process data in real-time via integrated performance dashboards. You can visualize your key performance indicators, on the device of your choice, via desktop or mobile.

DataStudio, the main client application for Inmation, is designed to be a secure and singular interface to access your entire data source network. Fully integrated with Inmation, DataStudio provides full and rapid access to your real-time and historized data with a suite of dynamic and effective visualization options. The intuitive interface and customizable toolset provides both casual users and power users the ability to create, configure and control their own workspace. Management of user profiles, security settings and access to shared workspaces can all be configured through DataStudio, providing on demand information to operational decision makers.

Connections are managed centrally for any number of production sites.

Fully Integrated Monitoring

Server Interfaces for Enterprise Application Integration

.NET API

OPC Classic

OPC UA

MongoDB JSON

Cloud Ingestion

Central System Management

Why Inmation?

Inmation supplies a true real-time information infra-structure to companies and organizations of any size and operational complexity.

Any industry - manufacturing, processing, supplying goods and services - can leverage existing data sources from any location to form a global data backbone for human and machine analysis, ultimately creating fast data systems and real-time business intelligence.

Inmation: DataStudio - Engineering Workbench

Key Features

- Centrally managed – easy upgrades, support

- Supports mixed architectures: on-pre, cloud-based, or mixed architectures are possible

- Works in any cloud environment

- Open Interfaces: WebAPI, OPC-UA interfaces enable connectivity to visualization & analytics tools

- Embedded scripting for compute at the edge, data contextualization, and more

- Designed by OT professionals for modern IT so that it won't disrupt the OT systems

- Created using a 'service-based' architecture on modern information technology

- OT data source and system vendor agnostic: DCS, PLC, historians, Lab-systems, maintenance systems, etc.

- Supports most all data types/structures: process data, alarms/events, files, documents, ODBC, XML,TCP streams, video/image, text, etc...

- Scalable – from very small (a few CPU cores) to enterprise scale (1000s of CPU cores)

- Supports fast,high-resolution data – sub-millisecond, if required

- CPU core-based

Inmation Success Stories

Inmation securely streams real-time data from hundreds of connected interfaces into a centrally managed cluster. inmation's endpoints provide pre-cleaned and contextualized data to various Analytics and Visualization tools. The central approach empowers many value-added use cases, such as Predictive Maintenance, Asset Effectiveness, Reliability Center and Augmented Reality.

Inmation forms the "digital glue" required to integrate any equipment, automation system, MES and other operational data sources. It acts as single, real-time data platform for the entire business unit. Bayer has seen a reduction of downtime, waste and other inefficiencies.

Inmation provides the technological backbone to support the smart manufacturing initiative for all of Boehringer Ingelheim's worldwide operations. Inmation guarantees to enhance its product according to the challenging requirements of GxP in the regulated environment of pharmaceutical production, facilitating Boehringer Ingelheim's feature requests in particular.

Inmation supplies full data integration for SIG's next generation food packaging lines. Full standardization by using OPC UA across all equipment components, partially composed of third-party supplies. Creating a holistic packaging line address space in real-time, including full data historization for hundreds of thousands items produced per day, different analytics and reporting.

Inmation facilitates full integration of all of Philips' manufacturing equipment for shaver head production. Our historian with highest performance and throughput capabilities enables in-and-out of process analytics of high volume discrete manufacturing data (involving sub-second and even sub-millisecond sensor data).

About AspenTech

Aspen Technology, Inc. (NASDAQ: AZPN) is a global software leader helping industries at the forefront of the world's dual challenge meet the increasing demand for resources from a rapidly growing population in a profitable and sustainable manner. AspenTech solutions address complex environments where it is critical to optimize the asset design, operation and maintenance lifecycle. Through our unique combination of deep domain expertise and innovation, customers in capital-intensive industries can run their assets safer, greener, longer and faster to improve their operational excellence. aspentech.com