Aspen InfoPlus.21®

Unlock information and create value through a flexible, comprehensive data foundation.

Aspen InfoPlus.21 (Aspen IP.21) is an industrial process historian that collects and stores large volumes of continuous time series data for analysis and reporting. This data forms the core of AspenTech DataWorks, the global leader in industrial data management. Aspen IP.21 provides organizations the ability to monitor, visualize and analyze plant operations and process data in
real-time to identify problems, their causes and improvement opportunities.

Key Benefits

Flexible, Scalable Infrastructure

Enables data collection from multiple sources, including automation and control systems, Enterprise Resource Planning (ERP) systems, other historians and third-party applications. It includes several interfaces for data exchange and a secure infrastructure that scales to a range of use cases.

Real-Time Traceability

Improves work practices and reduces downtime through a comprehensive view of productivity, with real-time dashboards and rich visualizations across the plant. Real-time traceability from multiple sources enables companies to identify bottlenecks and take immediate action to improve performance.

Robust Platform for Advanced Analytics

Provides a foundation for more advanced analytics by supplying raw process data for applications to preform sophisticated calculations in near real-time. In addition, uses historical data can be used to build, train and deploy custom Industrial AI models, tailored to the needs of a site, business unit, company or industry.

Key Capabilities

- Flexible, real-time 64-bit process historian with unlimited archival storage
- Integrated search indexing and master data management providing contextual structure to tag data for fast discovery
- Integrated calculation engine with built-in pre-defined functions
- High-performance connectivity for data collection from old, new, local and remote assets including standard interfaces to ERP systems like SAP
- Secured interfaces including OPC, ODBC, COM, and Rest services for data exchange with other applications
- Configurable custom tag structure to support application requirements
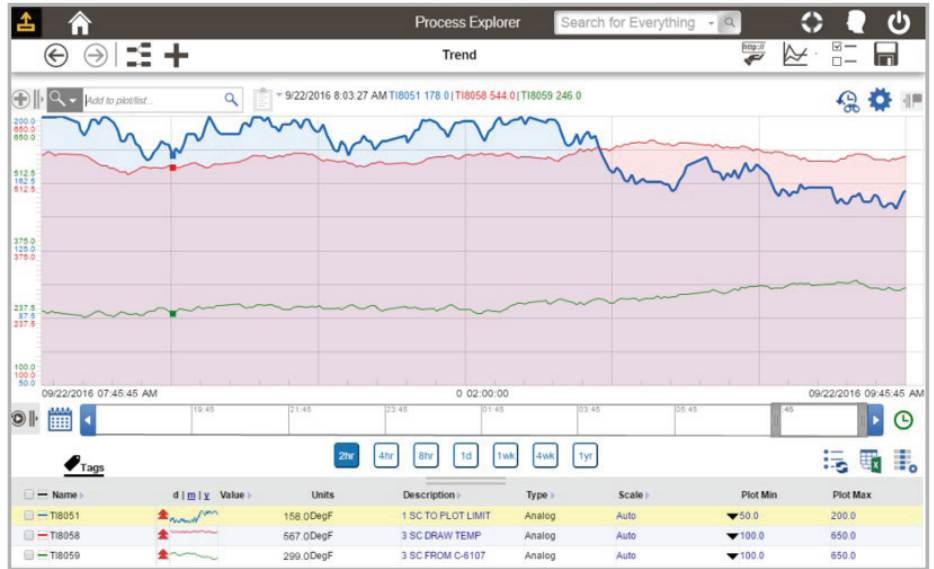
Add-On Capabilities

- State-of-the-art visualizations and reporting tools with complementary solutions such as aspenONE Process Explorer™, a web-based user interface for viewing and analysis
- Calculation and storage of Key Process Indicators (KPIs), Statistical Process/Quality Control (SPC/SQC) Information, Operational Equipment Effectiveness (OEE) and Accounting events
- Process historian for event and batch process data with Aspen Production Record Manager™
- Enterprise version of Aspen IP.21 with high availability that leverages the Cloud's resourcing capabilities
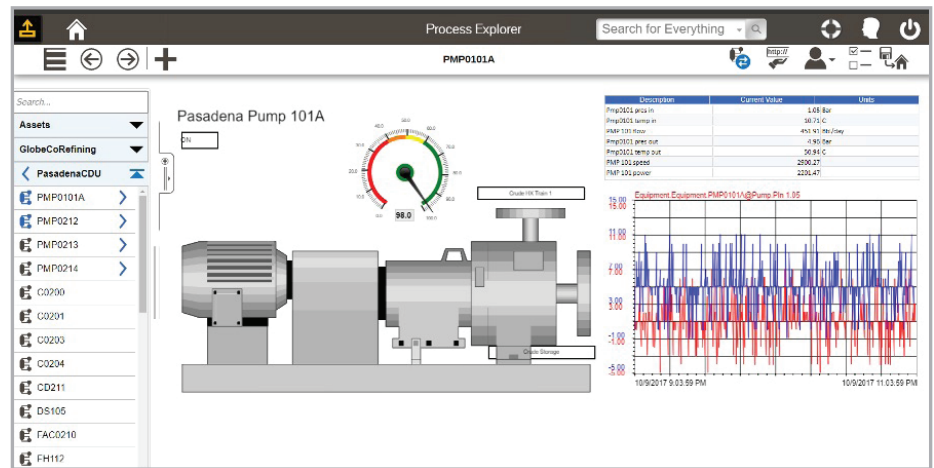
Use Case

CHALLENGE: A petrochemical company lacked a data structure to capture and store real-time and historical data to improve its operations and streamline supply chain functions. Managers were not able to access high-value reports showing how the plant is performing on a regular basis, and they had difficulties improving Manufacturing Efficiency Index (MEI) performance. This resulted in missed production-related targets, affecting the company's profitability and customer service.

SOLUTION: Aspen IP.21 organizes and provides global reporting data; generates electronic batch sheets (EBS) for each unit and end-of-shift reports; captures information such as loss of operated batch, top reasons for delays, key process variable violations and current batch phases; and calculates MEI and other important KPIs.

RESULT: Aspen IP.21 with EBS helped the company establish a consistent workflow process, analyzing production loss data in real time and achieving significant MEI improvements.

With the help of Aspen IP.21 and aspenONE Process Explorer, users are able to monitor the performance of plant equipment and navigate through their historical and real-time data.

With the help of aspenONE Process Explorer, Aspen IP.21 enables combining navigation with an asset symbol and its historical and real-time data.

AspenTech DataWorks is the global leader in industrial data management from the plant floor to the board room. Our mission is to accelerate data-driven value creation in the asset- intensive industries we serve.

Visit **aspentech.com/dataworks** to learn more.