Brochure

Aspen InfoPlus.21®

What is Aspen InfoPlus.21?

Aspen InfoPlus.21 (IP.21) is an industrial process historian collecting and storing large volumes of process data for analysis and reporting. This data forms the core manufacturing integration platform, uniting data across process control, manufacturing operations and business systems. With Aspen IP.21, you can drive performance improvements and optimize decision making through near real-time asset visibility, analysis and monitoring.

Unlock Data and Increase Profitability
Readily disseminate data into tailored records structures, permitting data-fueled decisions to improve production operations.

Aspen IP.21 helps you use the industrial data being generated to improve operations and streamline supply chain functions. With the data aggregated in one place, you gain access to high-value reports that provide a complete, reconciled view of how the plant performs regularly. This action allows you to achieve more profitable operations with accurate yield accounting.

Aspen IP.21 is the "data hub" for many applications:
- Supplies raw process data to applications to perform sophisticated calculations
- Provides historical data for calibrating models
- Stores time-series results of interest to many roles

Accelerate Performance Improvements

Embedded real-time computation engines support performance management and analysis across an enterprise to reduce operational expenses.

Gain key insights and drive performance improvements with dashboards and rich visualizations that deliver plant operations data in real-time. Actively monitor and analyze key metrics, getting alerts for exceptions and alarms. Aspen IP.21 helps you stay ahead of performance issues and improve asset operations using alerts and pattern matching.

Improve Collaboration

Create better work practices with a powerful, flexible, secure infrastructure that scales to various users, enabling company-wide benchmarking.

Aspen IP.21 helps improve work practices and reduce downtime by providing a comprehensive view of productivity and efficiency across the plant. With real-time traceability from multiple sources, you can identify bottlenecks or inefficiencies and take action to improve. Having a complete picture of production operations leads to operational excellence and strengthens collaboration.

Aspen InfoPlus.21 is Part of AspenTech DataWorks

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.
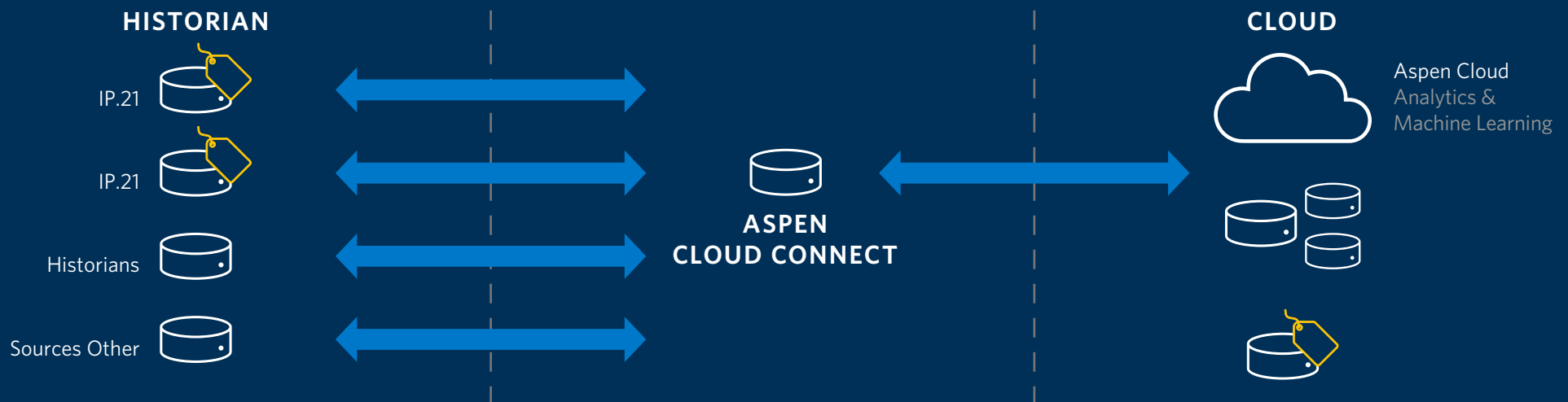
Harness the Power of Industrial Data in the Cloud

- Integrate industrial data across existing data historians with cloud-ready solutions

- Achieve maximum performance, security and deployment flexibility for stranded industrial data

- Enable enterprise-ready Aspen IP.21 to act in concert to manage data at scale

- Aggregate, contextualize and mobilize data across contributing sites for enterprise-level Aspen IP.21 access

- Enhance data preparedness and accessibility for AI-enabled capabilities

Time series trending of Aspen IP.21 data with many functions: zoom, annotations, comments, time shifting, control of pens and more.

Aggregation of Data from All Sites in the Cloud

HISTORIAN

IP.21

IP.21

Historians

Sources Other

ASPEN CLOUD CONNECT

CLOUD

Aspen Cloud
Analytics &
Machine Learning

Why Aspen InfoPlus.21?

It's not about delivering bespoke solutions. It's about providing production-grade, scalable and sustainable AI applications.

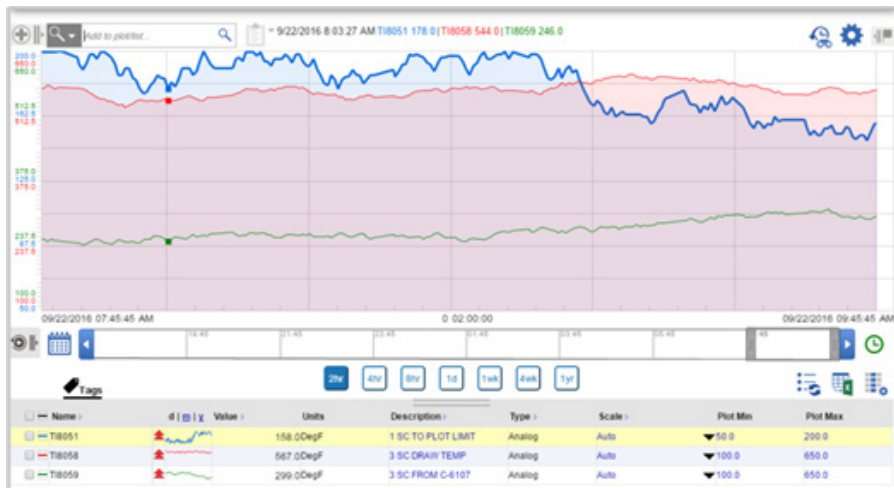**Data science methods tuned for process engineers**
Real-time monitoring of essential business metrics via dashboards, alerting and pattern matching provides insight into plant performance.

Data that is comprehensive, flexible and scalable
Aspen IP.21 provides a consistent operation, monitoring, and analysis environment agnostic in terms of historian or DCS infrastructure. You can take advantage of high-performance connectivity for all assets, regardless of age or location.

A robust platform for industrial data analysis
Get KPI management, OEE, alerts, analytics and pattern search in one web-based environment. Aspen IP.21 provides a foundation for advanced analytics that extends to maintenance and supply chain functions.

Plot any process variable or characteristic against any other process variable or characteristic with Aspen IP.21.

Key Features

- 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

Aspen InfoPlus.21 Success Stories

Infineum used Aspen InfoPlus.21 to improve unit performance, data quality and personnel efficiency.

A world leader in the formulation, manufacturing and marketing of petroleum additives, Infineum needed to improve manufacturing efficiency index (MEI) performance, standardize data collection and management processes, and streamline the tools available for performance analysis.

With Aspen IP.21, Infineum organized and provided global reporting data, calculated KPIs and generated electronic batch sheets for each unit. By improving their performance analysis capabilities, Infineum captured production loss data and raised manufacturing efficiency. Since implementation, Infineum has increased:

- Manufacturing efficiency index (MEI) by 0.25%
- Production by 2,000 tons per year
- Total global MEI by 10%

Dow Chemical eliminated misidentification of materials being moved into and out of production using Aspen InfoPlus.21.

Dow faced many challenges, including raw materials inconsistently entering the process and the control system incorrectly identifying containers and materials. Using Aspen IP.21 for procedural control, Dow developed a high-integrity material flow (HIMF) system, ensuring that the movement of materials into and potentially out of a process position will be authenticated.

Dow was able to eliminate errors due to positioning incorrect raw materials, using Aspen IP.21 to interface with the plant control system and confirm that the scanned material on the HMI at the production position is the right material for the recipe being executed.

About AspenTech

Aspen Technology (AspenTech) is a leading software supplier for optimizing asset performance. Our products thrive in complex, industrial environments where it is critical to optimize the asset design, operation and maintenance lifecycle. AspenTech uniquely combines decades of process modeling expertise with machine learning. Our purpose-built software platform automates knowledge work and builds sustainable competitive advantage by delivering high returns over the entire asset lifecycle. As a result, companies in capital-intensive industries can maximize uptime and push the limits of performance, running their assets safer, greener, longer and faster.