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Brochure

Aspen Connect™ Family

> "Leaders are seizing the opportunity to use data science to drive profit and business sustainability. The Aspen Connect Family of solutions enables industrial organizations to obtain ROI by using data to drive asset optimization and reach high and sustained levels of operational excellence."

– Keith Flynn, Senior Director, Product Management, R&D – AIoT Solutions, Aspen Technology, Inc

What is Aspen Connect?

Aspen Connect lets you integrate industrial data across existing historians with cloud-ready solutions to achieve maximum performance, security, deployment and flexibility. Aspen Connect is purpose-built for IoT technology, industrial devices, wireless sensors and MES systems, enabling efficient and secure data integration that breaks data silos. The Aspen Connect Family of solutions gives you a holistic view of the entire plant using the cloud – no data is left behind. This drop-in solution consists of two components:

Aspen Cloud Connect™
Enables Aspen InfoPlus.21® (IP.21) data, or third-party data, to be streamed to the enterprise or Cloud.

Aspen Edge Connect™
Aggregates data from edge or stranded assets and sends it to cloud applications or a historian like Aspen InfoPlus.21.

Aspen Connect is Part of the Aspen AIoT Hub™

The Aspen AIoT Hub provides the integrated data management, edge and cloud infrastructure and a production-grade AI environment to build, deploy and host Industrial AI applications at enterprise speed and scale.

- Data integration and mobility – Access fully-integrated data from multiple historians, industrial IoT devices and more to the edge and cloud, across the enterprise.

- Cloud-ready infrastructure – Realize the vision for the Self-Optimized Plant on the cloud. Ingest and aggregate data at a large scale, process and store billions of datapoints, and productize models using the Aspen Data Science Studio™.

- Industrial AI app ecosystem – Empower data scientists to collaborate and build their own data-rich AI apps using the Aspen Industrial AI toolkit which consists of Aspen Industrial AI applications, models and agents and customer and partner purpose-built applications.

- Enterprise-wide visualization – Examine and benchmark KPIs that correlate with accelerated insights to ensure your machine learning models and workflows continue to perform well over time.
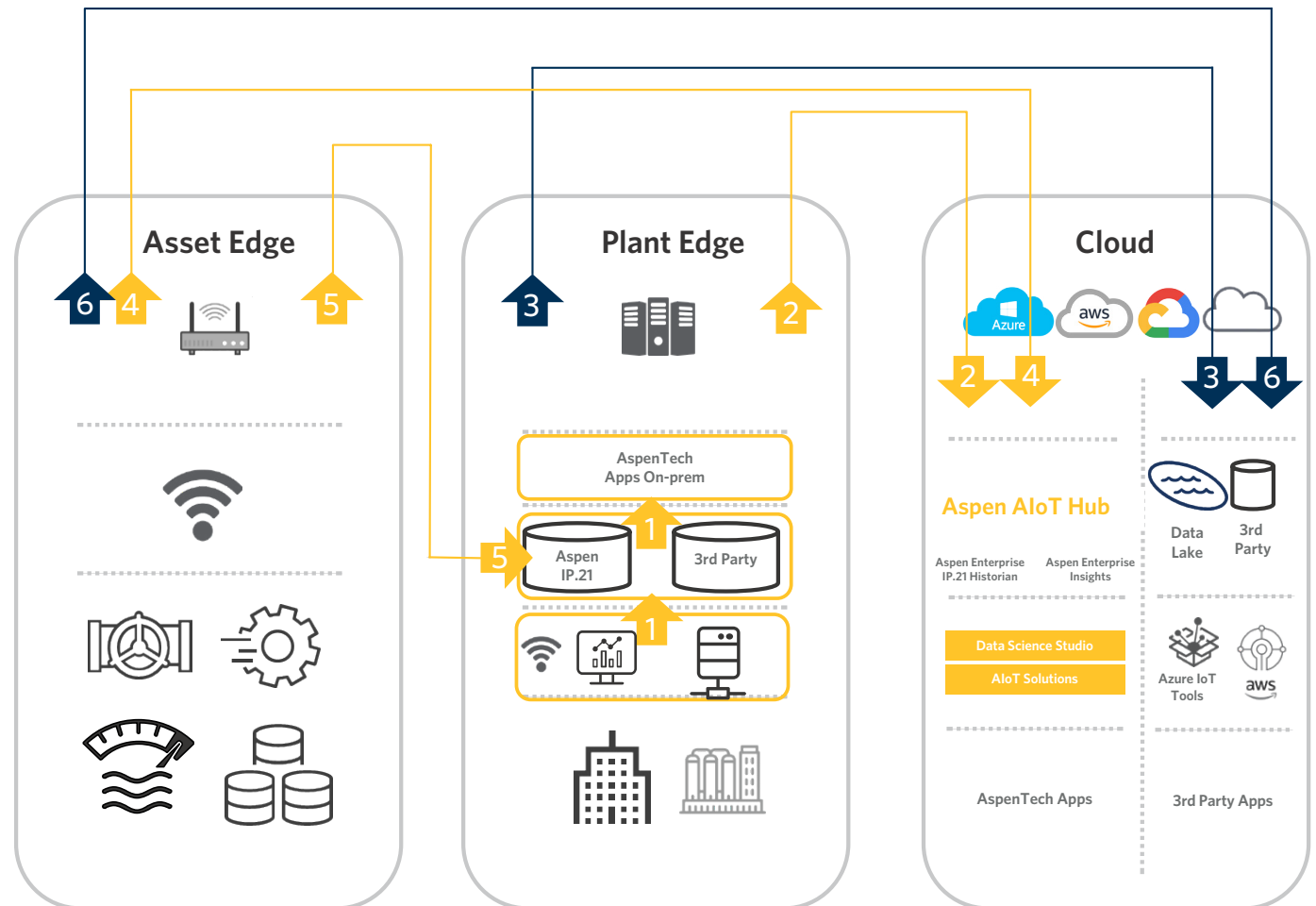
Enabling End-to-End Data Collaboration

By connecting multiple, diverse sources of data via edge-enabled devices to the cloud, Aspen Connect creates new opportunities for applications to deliver superior operational excellence and improved ROI.

Asset Edge (Aspen Edge Connect)

1 **Aspen IP.21** and 3rd Party ⟶ **AspenTech Products**
- Providing AspenTech products with a performant and standardized approach to data access

2 **Aspen IP.21** and 3rd Party ⟶ **Aspen Cloud**
- Deliver enriched data sets and streaming data into the cloud that is pre-conditioned and optimized for AspenTech cloud apps

3 **Aspen IP.21** and 3rd Party ⟶ **3rd Party**
- Deliver data from historians and plant data sources to cloud applications and data lakes

Plant Edge (Aspen Cloud Connect)

4 Assets and Sensors ⟶ **Aspen Cloud**

5 Assets and Sensors ⟶ Aspen **IP.21**
- Focus on stranded assets

6 Assets and Sensors ⟶ 3rd Party

Asset Edge

Plant Edge

AspenTech Apps On-prem

Aspen IP.21   3rd Party

Cloud

Azure   aws

Aspen AIoT Hub

Aspen Enterprise IP.21 Historian   Aspen Enterprise Insights

Data Science Studio

AIoT Solutions

Azure IoT Tools   aws

AspenTech Apps

Data Lake   3rd Party

3rd Party Apps

Be Connected. Be Informed. Be Efficient.

Gain Full Visibility of Your Data

Maintain end-to-end visibility by collecting data from every device and moving it to the cloud.

- Manage large volumes of data into a conditioned, usable format.
- Use a variety of communication protocols and write data to other enterprise systems, such as historians, data lakes and cloud data storage.
- Achieve maximum performance, security and deployment flexibility for stranded data.

Leverage Your Existing Systems

Use existing software and tools to minimize disruption and reduce expenses.

- Avoid costly replacements during deployment.
- Use modern and legacy industrial protocols that allow connections to older PLCs and plant floor devices.
- Reduce disruption using vendor-neutral connectivity that doesn't interfere with existing controls and processes.

Scale Up and Out

Leverage machine learning and the flexibility of the cloud to create efficiencies and easily scale your business.

- Use native Aspen IP.21 connectivity for encrypted, high-speed data transfers.
- Accommodate more data and devices by leveraging the flexibility of the cloud while alleviating strain on the network.
- Leverage historical data, enabling machine learning agents to be trained and deployed immediately in the cloud or on-premises.

Why Aspen Connect?

The Aspen Connect Family of solutions help companies push the limits of performance and run assets safer, greener, longer and faster. AspenTech is working with customers to extend optimization's reach through the combination of process modeling expertise, advanced analytics and machine learning.

- Flexible connectivity purpose built for AspenTech products, but supports other protocols, historians, data lakes and cloud providers
- Performance and security to transfer data from edge to cloud
- Embedded toolkit for improved workflows and bulk tag management
- Edge computing capabilities for custom edge calculations

Key Benefits

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

- Migrate large volumes of data into a conditioned, usable format

- Leverage existing MES investment

- Integrate with vendor-neutral, out-of-the-box connectivity

- Utilize existing systems and avoid replacements during deployment

- Connect using modern and legacy industrial protocols to older PLCs and new modern plant floor devices

- Use native Aspen IP.21 connectivity for encrypted high speed data transfers

- Scale up and out to accommodate more data and devices

- Alleviate strain on network

aspentech | Technology That Loves Complexity

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.

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