

# Aspen Connect™

a feature of Aspen InfoPlus.21®

## Vendor-Neutral Data Connectivity for End-to-End Data Collaboration

Aspen Connect is a powerful, cloud-ready data connectivity solution that enables enterprises to easily read from, and write to, a wide variety of data sources, databases and historians. Eliminating data silos makes it easier for you to leverage data from multiple plants for reporting and analysis purposes and run your business more efficiently.

### Key Benefits

#### Cloud Ready, Scalable Solution

Gain end-to-end visibility by collecting data from every device and moving it to the cloud, enabling management of large volumes of data in a conditioned, usable format. Leverage the flexibility of the cloud to create efficiencies and easily scale.

#### Flexible Connectivity

Premium connectivity for stream processing, historians, data lakes and cloud providers for analytics and reporting with a diverse library of connectors. Purpose built for AspenTech products, but supports other protocols.

#### Integrated Security

Active directory integration controls access for overall system configuration and the highest available, continually updated security options for each protocol or endpoint.

#### Simplified Workflows

Configure servers, manage tags and create data transfers using routes with multiple options for data conditioning and scheduling with an embedded web-based toolkit.

### Key Capabilities

- Transfer historical data or stream live data from multiple sources to other AspenTech products, data lakes or third-party end points in the cloud or on premises
- Migrate large volumes of data into a conditioned, usable format
- Achieve maximum performance, security and deployment flexibility for data
- Leverage existing systems and tools to minimize disruptions and reduce total cost of ownership
- Scale efficiently with the flexibility of the cloud

## Use Case

**CHALLENGE:** A specialty chemicals company wanted to replace its in-house plant database and leverage AWS Cloud technology for plant data retrieval and storage. Moving process historian data to the cloud would allow the company to aggregate data from various sources, leverage insights for plant improvement and commercial purposes, and implement advanced applications of machine learning and process control. Potential downsides: the time, cost and highly skilled workforce needed to organize and maintain tags and collection rates.

**SOLUTION:** By using Aspen Connect, part of Aspen InfoPlus.21, the company was able to connect data from multiple sources to the AWS Cloud. Aspen Connect demonstrated its ease of use and solved the scalability problem of previous migration efforts.

**RESULT:** During a successful pilot testing, Aspen Connect demonstrated its ease of use and addressed the scalability problem of previous migration efforts. Leveraging Aspen Connect enabled the company to transfer operational data to the AWS Cloud with maximum performance, security and flexibility while reducing complexity and the total cost of ownership for AWS Cloud connectivity.

Server Name	Tags	Info	Protocol	Type	Server Address	Capabilities
Compute Server			Compute Server	input/output	127.0.0.1	
V11.0-IP21-AZQAPERFMESC03			InfoPlus.21	input/output	172.19.2.51	
V12.0-IP21-AZQAPERFMESC04			InfoPlus.21	input/output	172.19.2.91	
V7.3-IP21-AZQAPERFMESC01			InfoPlus.21	input/output	172.19.2.107	
V9.0-IP21-AZQAPERFMESC02			InfoPlus.21	input/output	172.19.2.56	

  

Route Name	Source Server	Destination Server	Tag Count	Type	Enabled
v7.3tov11	V7.3-IP21-AZQAPERFMESC01	V11.0-IP21-AZQAPERFMESC03	10319	Advanced	<input type="checkbox"/>
v7.3tov12	V7.3-IP21-AZQAPERFMESC01	V12.0-IP21-AZQAPERFMESC04	10319	Advanced	<input type="checkbox"/>
v7.3tov9.0	V7.3-IP21-AZQAPERFMESC01	V9.0-IP21-AZQAPERFMESC02	10319	Advanced	<input type="checkbox"/>
v9tov11	V9.0-IP21-AZQAPERFMESC02	V11.0-IP21-AZQAPERFMESC03	10321	Advanced	<input type="checkbox"/>
v9tov12	V9.0-IP21-AZQAPERFMESC02	V12.0-IP21-AZQAPERFMESC04	10321	Advanced	<input type="checkbox"/>

CPU: 0.78%    Memory: 27.00%    Disk: 36.88%    Active Tags: 10,321    Reads/min: 0    Writes/min: 0    Operations/m: 0

All existing routes with their information are listed and accessible in an intuitive interface.

**Edit Route - Map Tags**

Map tags from the source to destination server by either dragging and dropping, clicking the auto-map icon, or importing from excel.

Standard Route Options

Start Time: 06/22/2020 12:00 AM (ADT)    Publish Frequency: 10

Source Tag	Source Tag Description
DA/IP_AnalogDef/Te...	
DA/IP_AnalogDef/Te...	
DA/IP_AnalogDef/Te...	
DA/IP_AnalogDef/Te...	
DA/IP_AnalogDef/Te...	
DA/IP_AnalogDef/Te...	
DA/IP_AnalogDef/Te...	
DA/IP_AnalogDef/Te...	
DA/IP_AnalogDef/Te...	

2008 tags

Mapped Source Tag	Source Tag Descri...	Destination Tag	Destination Tag De...
DA/IP_AnalogDef/...		DA/IP_AnalogDef/...	
DA/IP_AnalogDef/...		DA/IP_AnalogDef/...	
DA/IP_AnalogDef/...		DA/IP_AnalogDef/...	
DA/IP_AnalogDef/...		DA/IP_AnalogDef/...	
DA/IP_AnalogDef/...		DA/IP_AnalogDef/...	
DA/IP_AnalogDef/...		DA/IP_AnalogDef/...	
DA/IP_AnalogDef/...		DA/IP_AnalogDef/...	
DA/IP_AnalogDef/...		DA/IP_AnalogDef/...	
DA/IP_AnalogDef/...		DA/IP_AnalogDef/...	

Update Route

The information about all tags mapped for transferring in the route is easily accessible.

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](https://www.aspentech.com/dataworks) to learn more.