

The background features a dark blue gradient with glowing blue and orange lines. A vertical blue line is on the left, and a curved orange line is on the right. A horizontal orange line intersects the vertical blue line.

AVEVA WORLD

AVEVAWORLD

APRIL 8, 2025

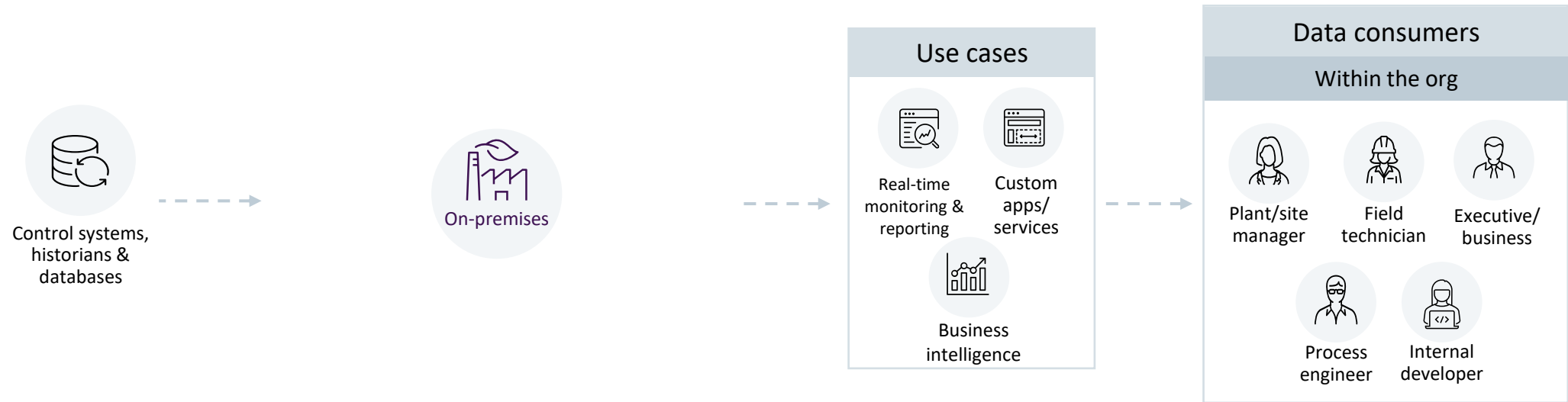
Fueling your data infrastructure with AVEVA connectivity

Ellery Murdock – Senior Technical Product Manager

AVEVA

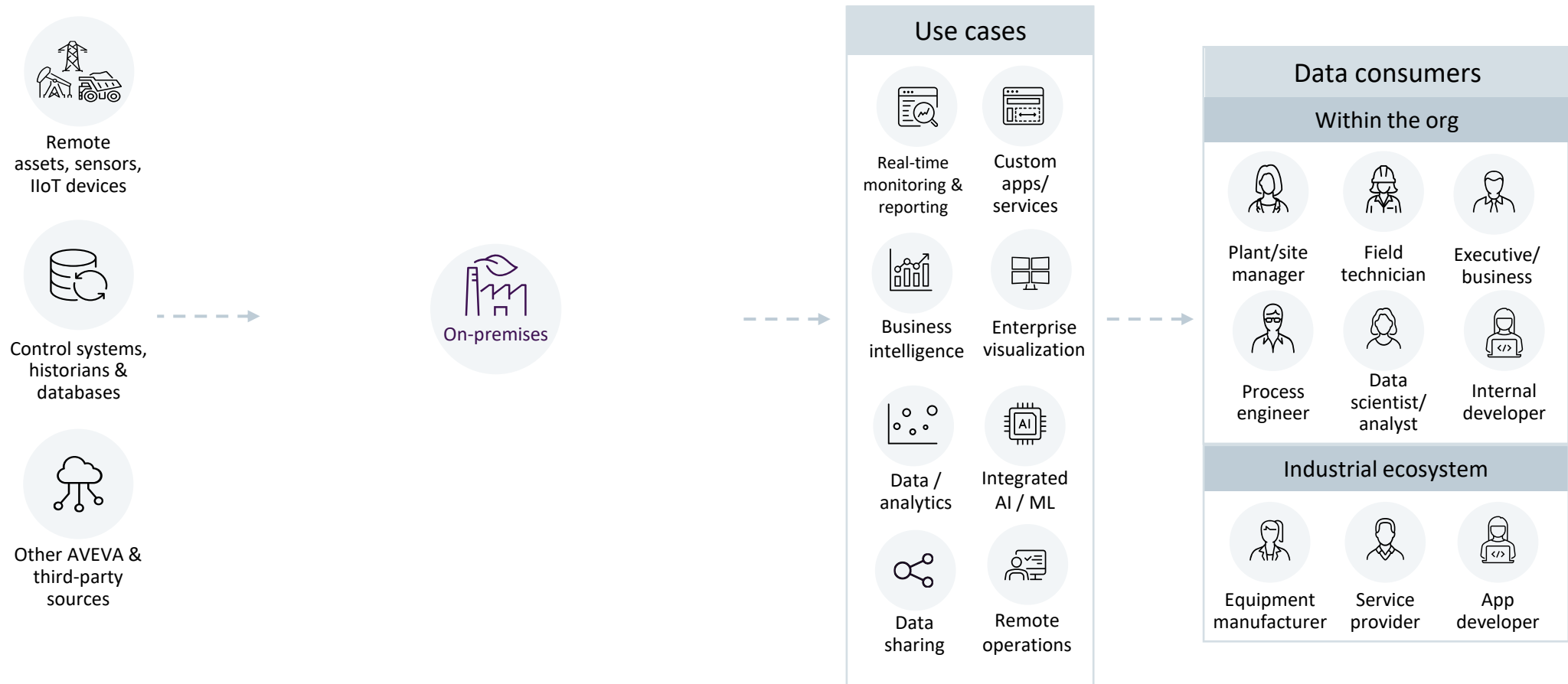
Supporting evolving data needs

Flexibility needed in today's connected, data-driven industry



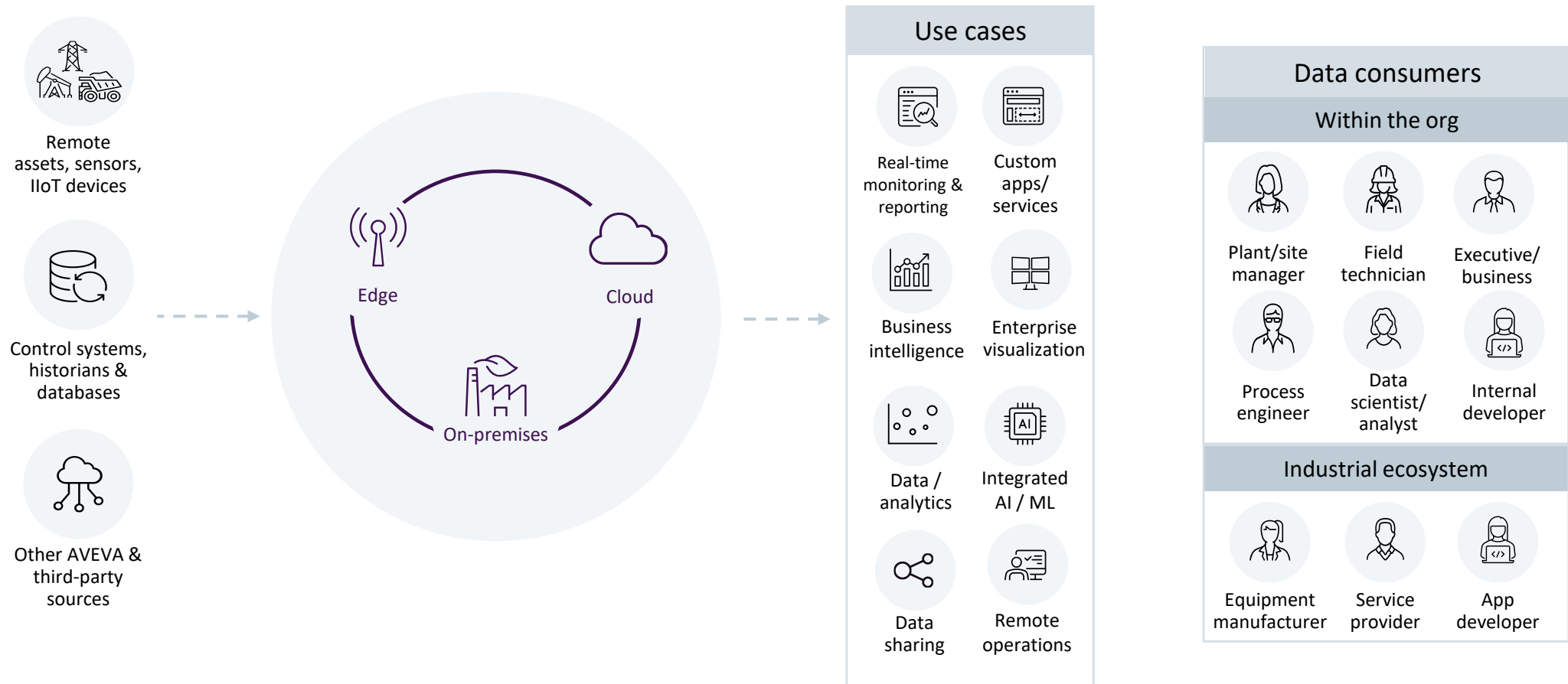
Supporting evolving data needs

Flexibility needed in today's connected, data-driven industry

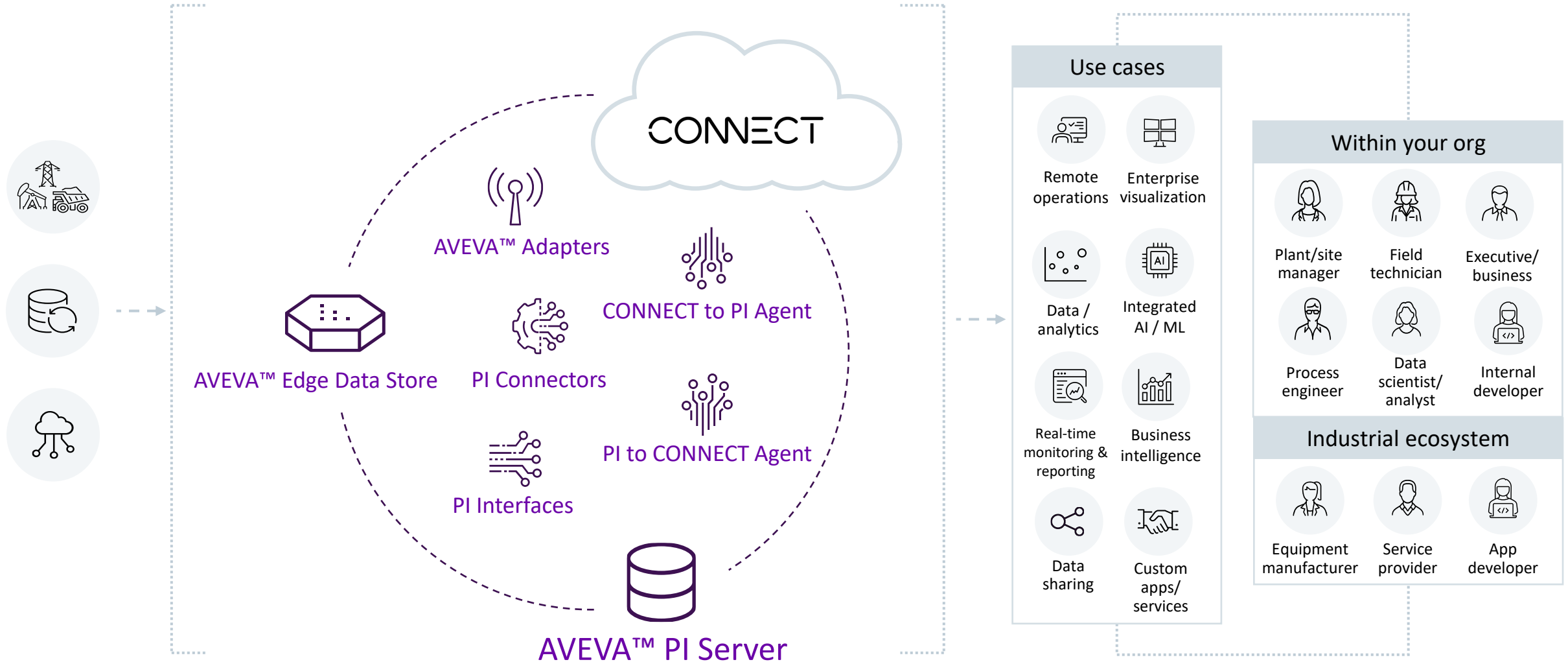


Supporting evolving data needs

Flexibility needed in today's connected, data-driven industry

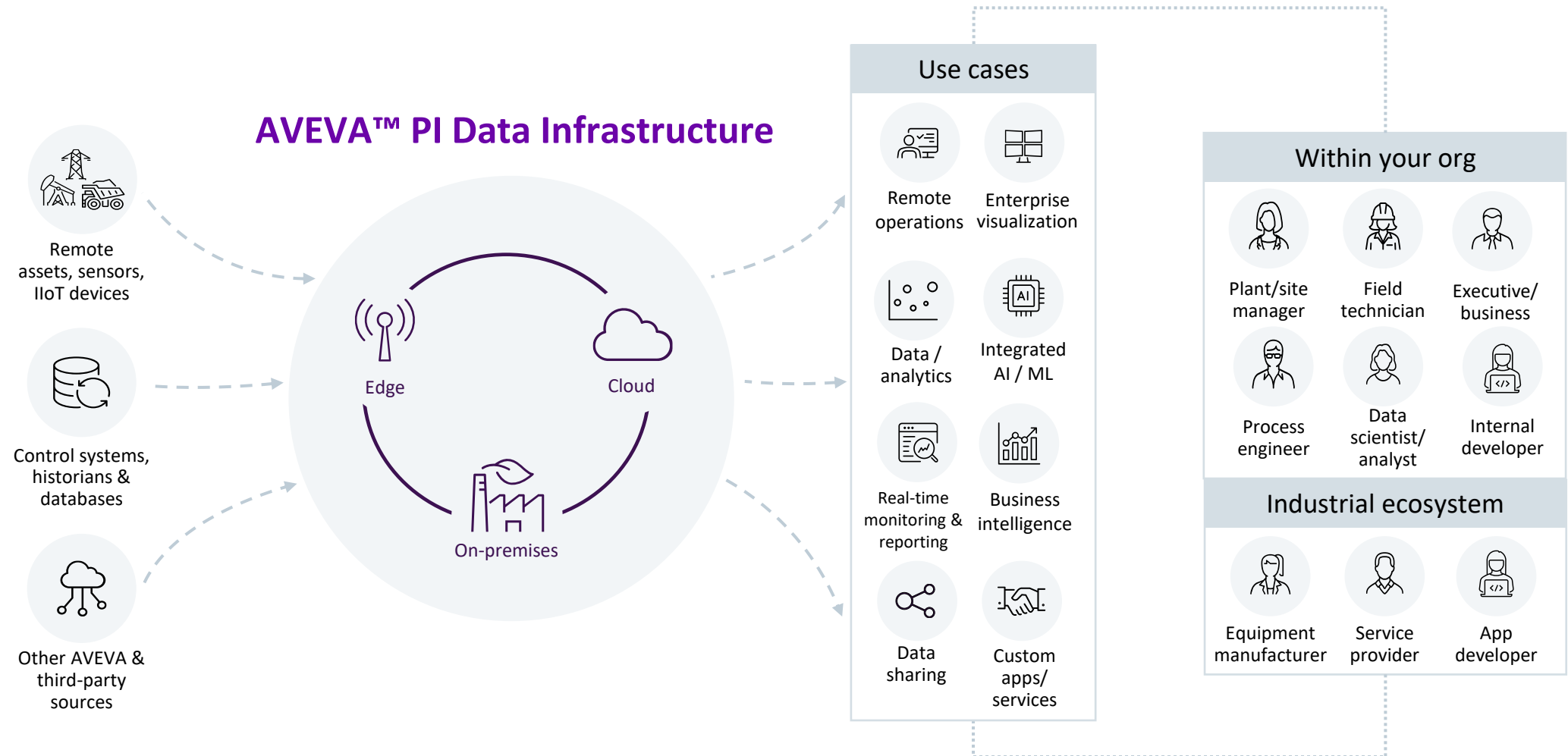


Extending the on-premises value with a hybrid offering



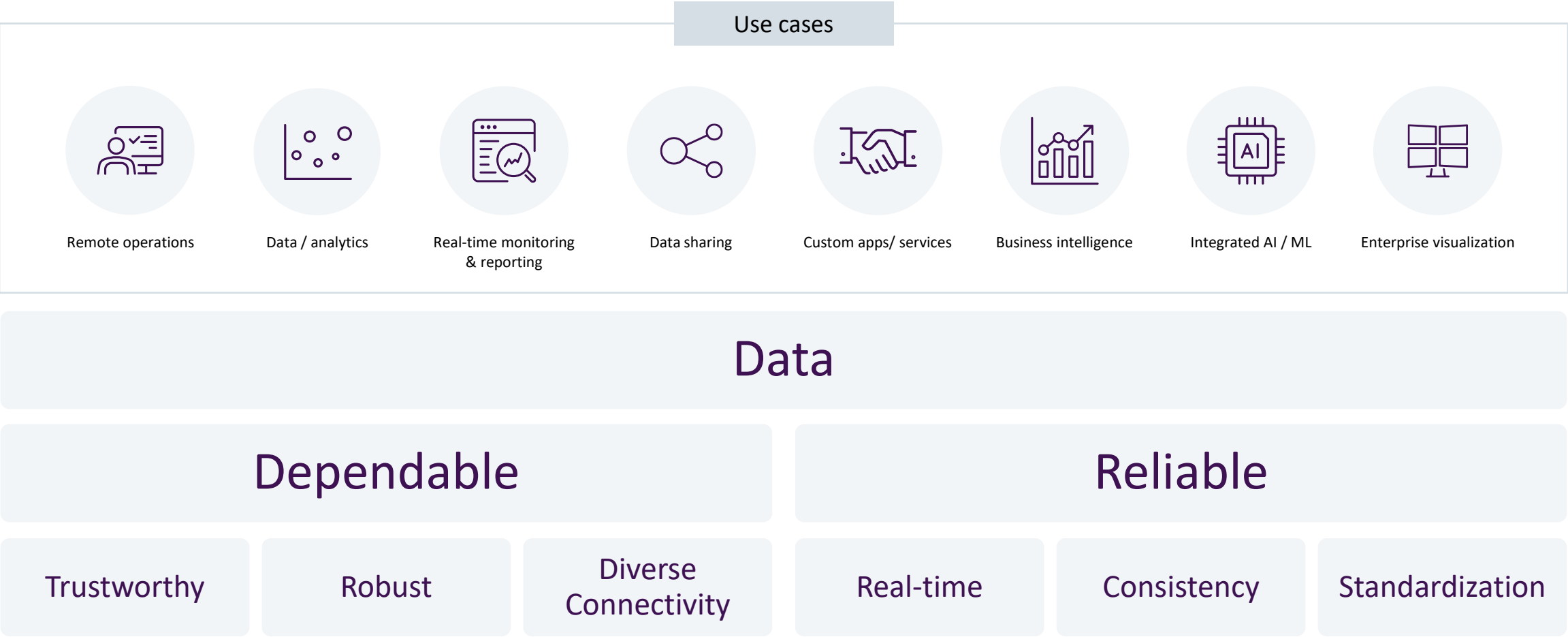
Hybrid data infrastructure

From edge to plant to community



Hybrid data infrastructure

From edge to plant to community



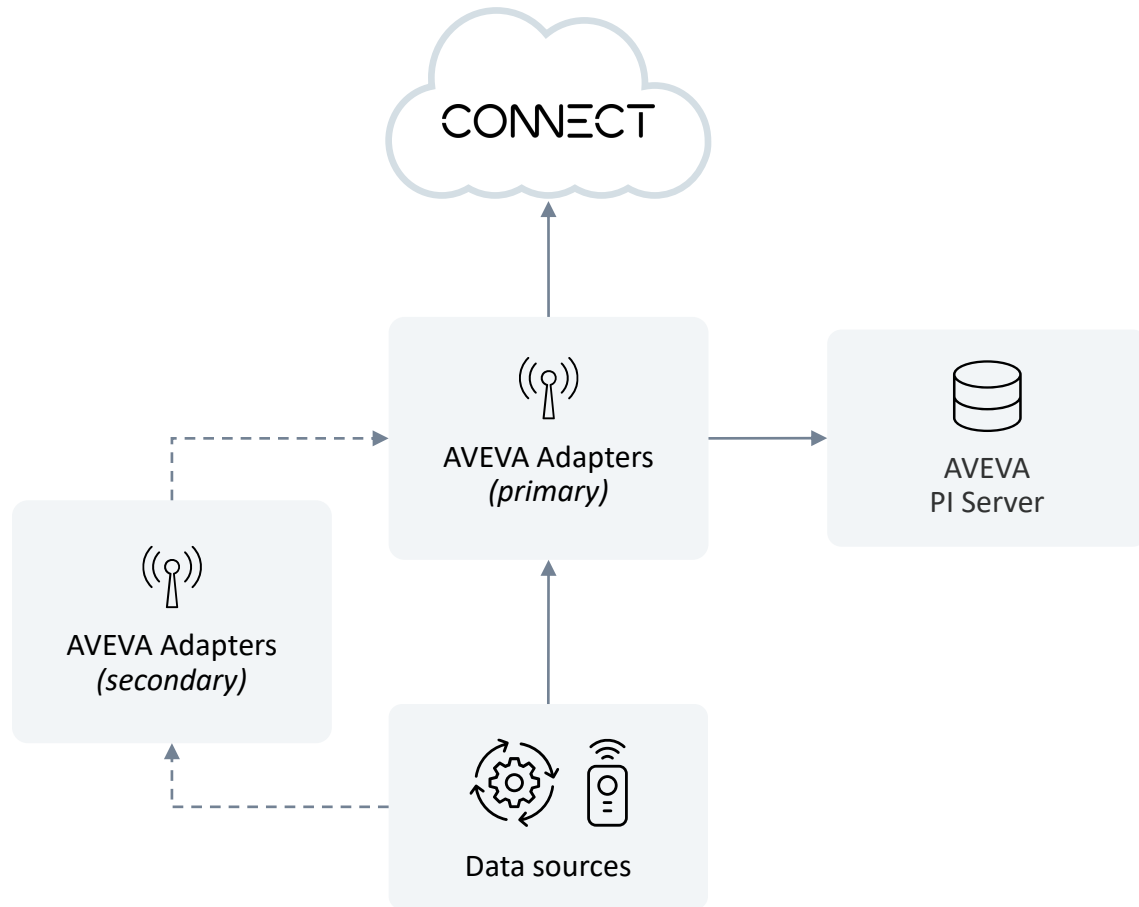
Extending real-time data collection

Connectivity spanning edge, cloud, and on-premises



Highly available, lightweight, cross-platform data connectivity

Capturing operational data across the edge, plant, and cloud with AVEVA Adapters



Features

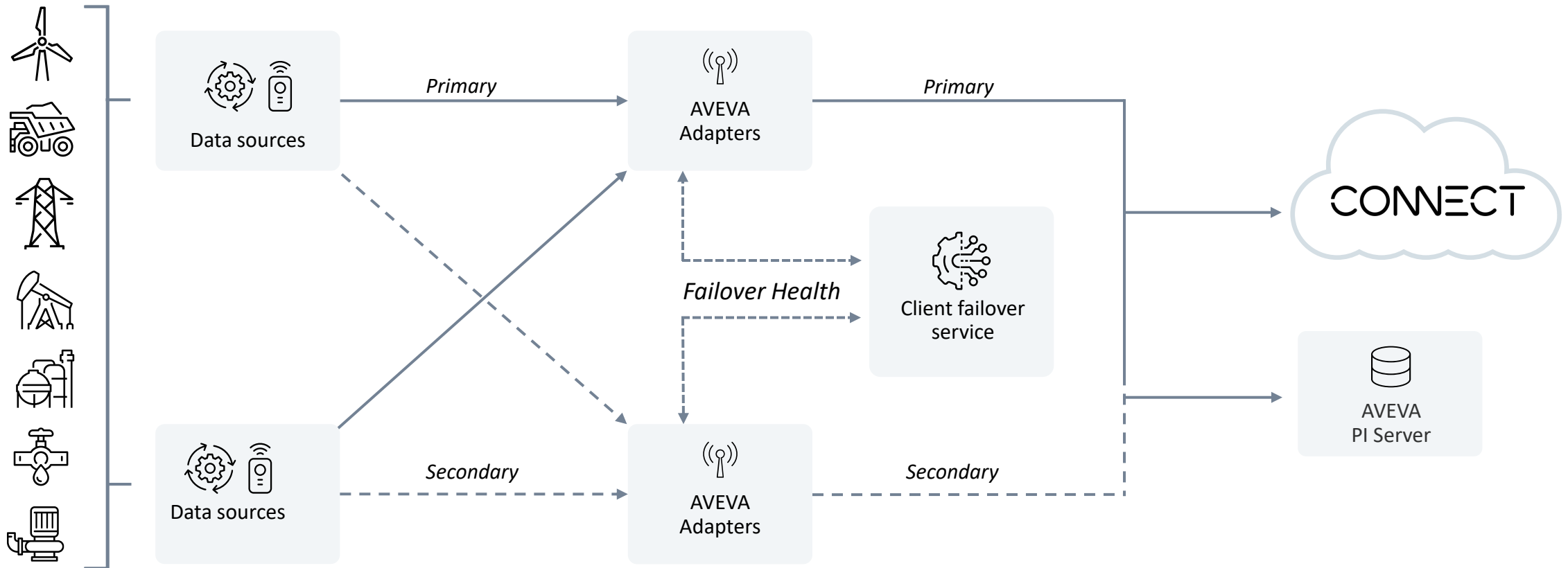
- New edge modules for recently released AVEVA Adapters
- Client-level failover for various protocols
 - Server-level failover for OPC UA and MQTT
- AVEVA Adapter health and diagnostics information available

Benefits

- Manage and scale connectivity across legacy, remote, and mobile assets
- Adjust consumption of data collection software to match priorities
- Reduce single points of failure and data loss with high availability
- Further ensure accurate and timely data for critical decision-making

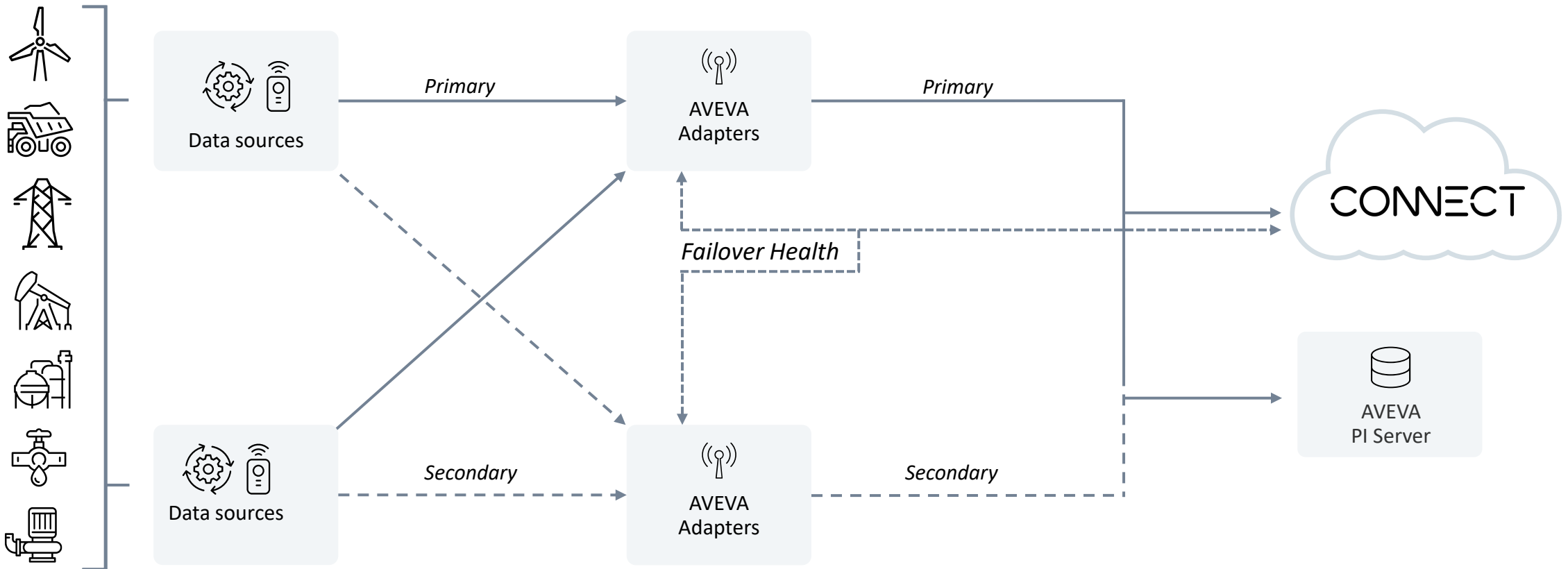
On-prem failover support for all AVEVA Adapters

Reduce single points of failure and data loss with high availability



Cloud failover support for all AVEVA Adapters

Reduce single points of failure and data loss with high availability



What's new with adapters today?

Available today

Delivering greater value one release at a time

	DNP3	BACnet	Modbus TCP	OPC UA
TLS 1.2 and 1.3	✓			
Polling	*	*	*	✓
Failover	✓	✓	✓	*
Edge modules	✓	✓	✓	*
Tested higher throughput	✓	✓	✓	✓
Kerberos OIDC Basic	✓	✓	✓	✓

Legend	
*	Previously released
✓	Available now!

What do we have planned for tomorrow?

In development

Additional releases scheduled for 2025

	SDF	AEH	RDBMS	MQTT
Multi-asset support	✓			
Failover	✓	✓	✓	*
Edge modules	✓	✓	✓	*
Tested higher throughput	✓	✓	✓	✓
Kerberos				
OIDC	✓	✓	✓	✓
Basic				

Legend	
*	Previously released
✓	Available now!

What do we have planned for tomorrow?

In development

Additional releases scheduled for 2025

	SDF	AEH	RDBMS	MQTT	OPC UA
Multi-asset support	✓				Alarms and Conditions Coming Q2 2025!
Failover	✓	✓	✓	*	
Edge modules	✓	✓	✓	*	
Tested higher throughput	✓	✓	✓	✓	
Kerberos					
OIDC	✓	✓	✓	✓	
Basic					

Legend	
*	Previously released
✓	Available now!

SDF Adapter – Working with Simple Files

Data file for a single asset

Timestamp	Current	Voltage	Angle	Power
3/3/2025 10:01	12.34	39.4575	26.647	945.23858
3/3/2025 10:02	12.48	39.7842	57.895	936.44444
3/3/2025 10:03	1245.98	39.7842	94.397	921.79461
3/3/2025 10:04	1239.78	39.9845	187.3694	993.48664
3/3/2025 10:05	12.41	39.5545	187.6975	976.34364

SDF Adapter – Working with Simple Files

Generate Tags automatically with data source discovery

Timestamp	Current	Voltage	Angle	Power
3/3/2025 10:01	12.34	39.4575	26.647	945.23858
3/3/2025 10:02	12.48	39.7842	57.895	936.44444
3/3/2025 10:03	1245.98	39.7842	94.397	921.79461
3/3/2025 10:04	1239.78	39.9845	187.3694	993.48664
3/3/2025 10:05	12.41	39.5545	187.6975	976.34364

- **Discovery Query:**
 - Edgecmd –cid SDF1 add discoveries –id SDFDiscovery1 –query “IndexField=Timestamp”
- **Generated Tags (4):**
 - Current
 - Voltage
 - Angle
 - Power

SDF Adapter – Working with Simple Files

Generate Tags automatically with data source discovery

Timestamp	Current	Voltage	Angle	Power
3/3/2025 10:01	12.34	39.4575	26.647	945.23858
3/3/2025 10:02	12.48	39.7842	57.895	936.44444
3/3/2025 10:03	1245.98	39.7842	94.397	921.79461
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- **Discovery Query:**
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- **Generated Tags (4):**
 - Current
 - Voltage
 - Angle
 - Power

SDF Adapter – Working with Multi-Asset Files

Data Files that contain x number of assets

Timestamp	City	Site ID	Current	Voltage	Angle	Power
3/3/2025 10:01	Billings	1254	12.34	39.4575	26.647	945.23858
3/3/2025 10:01	Billings	9874	12.48	39.7842	57.895	936.44444
3/3/2025 10:01	Kalispell	4512	1245.98	39.7842	94.397	921.79461
3/3/2025 10:01	Missoula	1111	1239.78	39.9845	187.3694	993.48664
3/3/2025 10:02	Helena	5426	12.41	39.5545	187.6975	976.34364

SDF Adapter – Working with Multi-Asset Files

Easily scale the tag creation process

Timestamp	City	Site ID	Current	Voltage	Angle	Power
3/3/2025 10:01	Billings	1254	12.34	39.4575	26.647	945.23858
3/3/2025 10:01	Billings	9874	12.48	39.7842	57.895	936.44444
3/3/2025 10:01	Kalispell	4512	1245.98	39.7842	94.397	921.79461
3/3/2025 10:01	Missoula	1111	1239.78	39.9845	187.3694	993.48664
3/3/2025 10:02	Helena	5426	12.41	39.5545	187.6975	976.34364

- **Discovery Query:**

- Edgecmd –cid SDF1 add discoveries –id SDFDiscovery1 –query “IndexField=Timestamp;StreamIDField=City,Site Id”

- **Generated Tags (20):**

- Billings.1254.Current
- Billings.1254. Voltage
- Billings.1254. Angle
- Billings.1254. Power
- Billings.9874.Current
- Billings.9874. Voltage
- Billings.9874. Angle
- Billings.9874. Power
- Kalispell.4512.Current
- Kalispell.4512. Voltage
- Kalispell.4512. Angle
- Kalispell.4512. Power
- Missoula.1111.Current
- Missoula.1111. Voltage
- Missoula.1111. Angle
- Missoula.1111. Power
- Helena.5426.Current
- Helena.5426. Voltage
- Helena.5426. Angle
- Helena.5426. Power

SDF Adapter – Working with Multi-Asset Files

Easily scale the tag creation process

Timestamp	City	Site ID	Current	Voltage	Angle	Power
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3/3/2025 10:02	Helena	5426	12.41	39.5545	187.6975	976.34364

- **Discovery Query:**

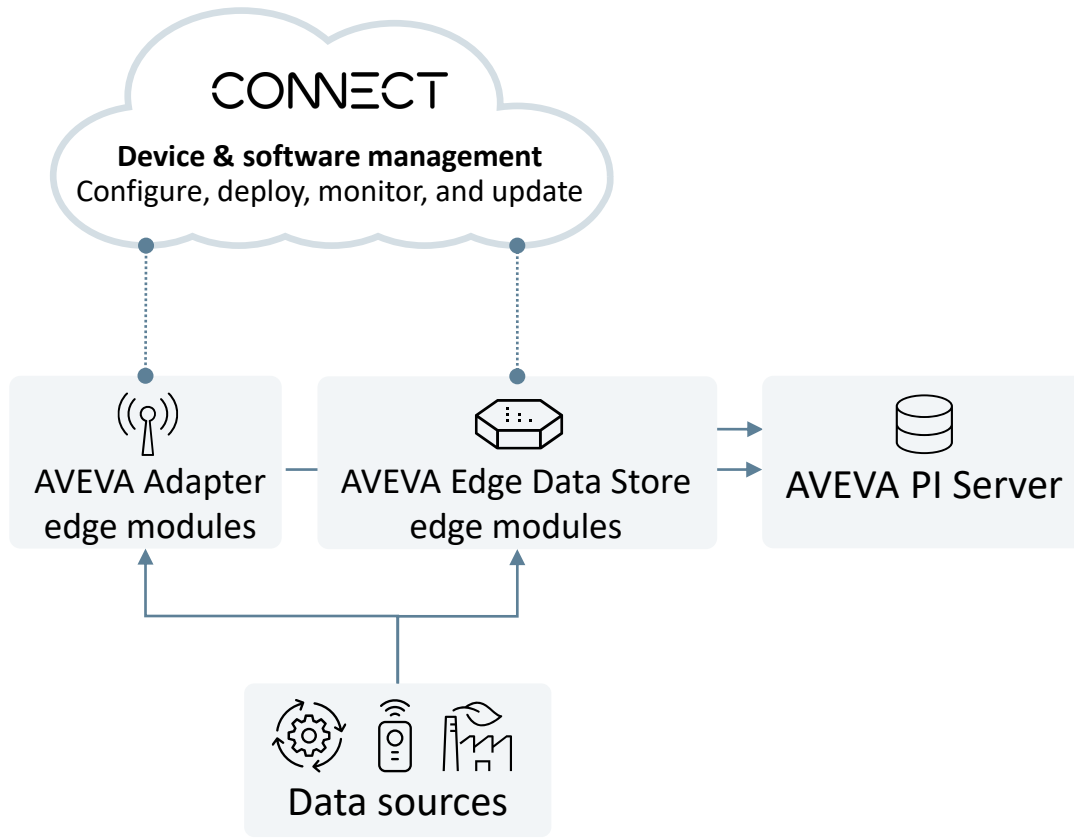
- Edgecmd –cid SDF1 add discoveries –id SDFDiscovery1 –query “IndexField=Timestamp;StreamIDField=City,Site Id”

- **Generated Tags (20):**

- Billings.1254.Current
- Billings.1254. Voltage
- Billings.1254. Angle
- Billings.1254. Power
- Billings.9874.Current
- Billings.9874. Voltage
- Billings.9874. Angle
- Billings.9874. Power
- Kalispell.4512.Current
- Kalispell.4512. Voltage
- Kalispell.4512. Angle
- Kalispell.4512. Power
- Missoula.1111.Current
- Missoula.1111. Voltage
- Missoula.1111. Angle
- Missoula.1111. Power
- Helena.5426.Current
- Helena.5426. Voltage
- Helena.5426. Angle
- Helena.5426. Power

Remote operations management

AVEVA Edge Management, edge modules, and CONNECT software management



Features

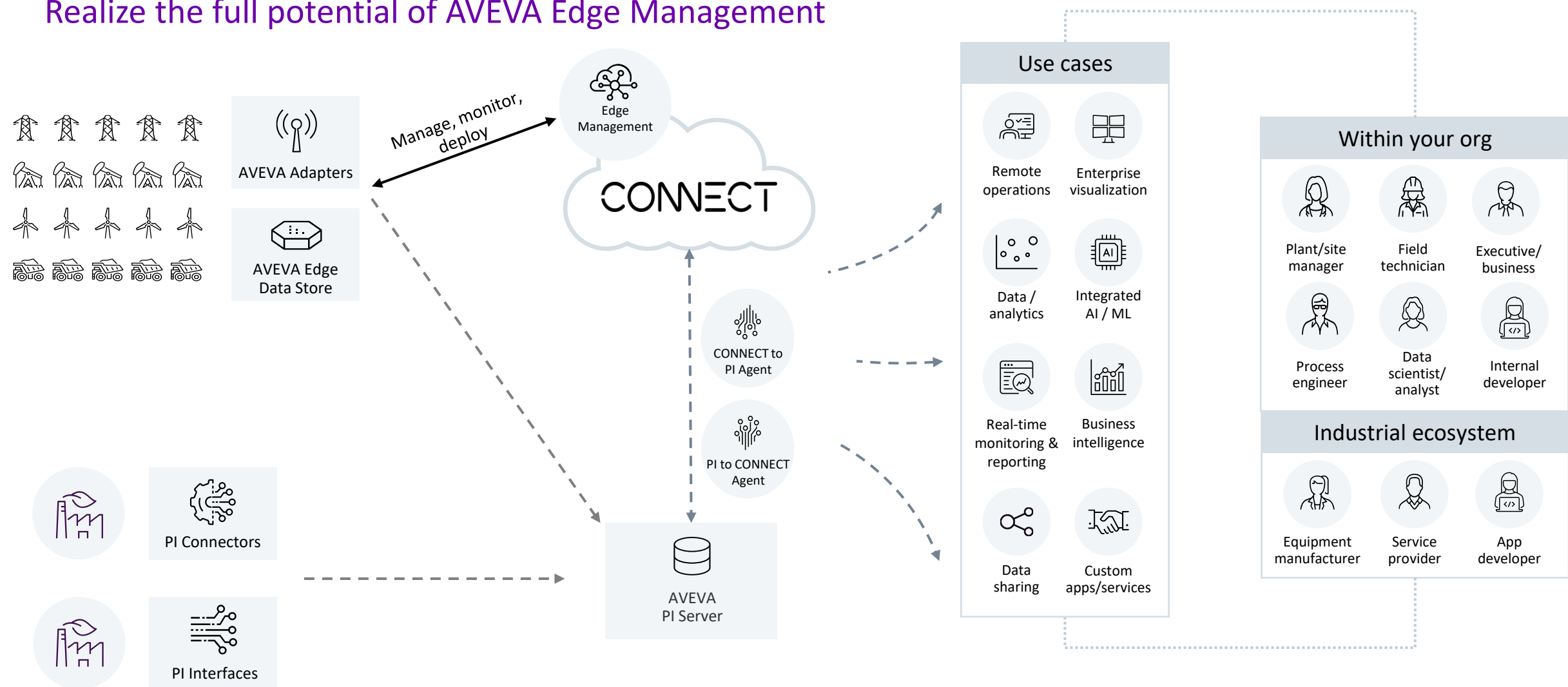
- Configure, deploy, monitor, and update edge modules from CONNECT
 - Edge modules available for AVEVA Adapters and AVEVA Edge Data Store
- AVEVA Edge Management enables a device digital twin, remote software installation, and version management
- CONNECT data services provides software configuration management and monitoring

Benefits

- Manage and scale connectivity across legacy, remote, and mobile assets
- Greatly reduce the effort of installation, configuration, and maintenance
- SaaS offering managed and maintained by AVEVA
- AVEVA Edge Management and CONNECT data services provided with AVEVA PI Data Infrastructure

Remote operations monitoring use case

Realize the full potential of AVEVA Edge Management



Manage software deployments at scale

Use AVEVA Edge Management to create device digital twins.
Remotely install, monitor, and manage software.

AVEVA™ Edge Management

Device List

+

Status	Connection	License	Name	Description ↑	Keywords
DEPLOYED		✓	AVEVA World OPC UA 1	OPC UA Adapter for Billings remote site	OPCUA ...
DEPLOYED		✓	AVEVA World OPC UA 2	OPC UA Adapter for Bozeman remote site	AVEVAWorld ...
DEPLOYED		✓	AVEVA World MQTT 1	MQTT Adapter for Missoula remote site	Plant ...
DEPLOYED		✓	AVEVA World DNP3	DNP3 Adapter for Helena remote site	Field ...

Manage software deployments at scale

AVEVA World OPC UA 1

< Summary

Details

Modules

Depl

Status

Connection Status

Connected

Deployment Status

DEPLOYED

License

13 Days Remaining

CPU

7.05 %

Used Memory

485.66 MB of 926.88 MB

Used Storage

136.83 MB of 252.05 MB

Disable Device Monitoring

Log

Modules

Name

AVEVA Adapter for OPC UA

Description

Edge System Version: 1.5.0.373 | Edge Module Manager Version: 1.1.1.19

File Size

CPU

3.24 %

Used Memory

171.15 MB of 905.16 MB

Manage software deployments at scale

AVEVA World OPC UA 1

< Summary Details

Status

Connection Status

Connected

Deployment Status

DEPLOYED

License

13 Days Remaining

Log

Modules

Name	AVEVA Adapter for OPC UA
Description	Edge System Version: 1.5.0.3 Module Manager Version: 1.1
File Size	
CPU	3.24 %
Used Memory	171.15 MB of 905.16 MB

AVEVA World OPC UA 1

Summary Details Modules Deployment

Back To Add Modules >>

AVEVA Adapter for OPC UA
1/mo

Versions *

1.5.0.373

Deployment Name *

adapter_opcua_module

Configuration File *

opcua_15_linux_arm64-2_Config.json

AVEVA Data Hub Client Credentials

Setup

Secret Store

Type

File Store

Setup

Monitor software deployments from a central location

The screenshot displays the 'CONNECT Data services' dashboard. On the left, a navigation sidebar lists several options: Home, Data Management, Data Collection (highlighted with a purple border), Visualization, Analytics, Security, Developer Tools, and Support. The main content area features a 'Latest Service Updates' section with an announcement for 'CONNECT to PI Agent 1.0.1523 is released!' dated August 26, 2024. To the right of this is a 'Quick Links' section with five links: 'View API documentation', 'Explore working code samples provided in multiple programming languages', 'View service blog', 'Manage Users And User Access For Your Organization', and 'Manage clients and secrets for securely accessing your data'. The top right of the dashboard includes a settings gear, 'AVEVA World' dropdown, and notification/question mark icons. A 'Customize' button is located in the top right corner of the main content area.

CONNECT Data services

Home

Data Management

Data Collection

Visualization

Analytics

Security

Developer Tools

Support

Customize

Latest Service Updates

Announcement: CONNECT to PI Agent 1.0.1523 is released!

Aug 26, 2024, 3:00:29 PM

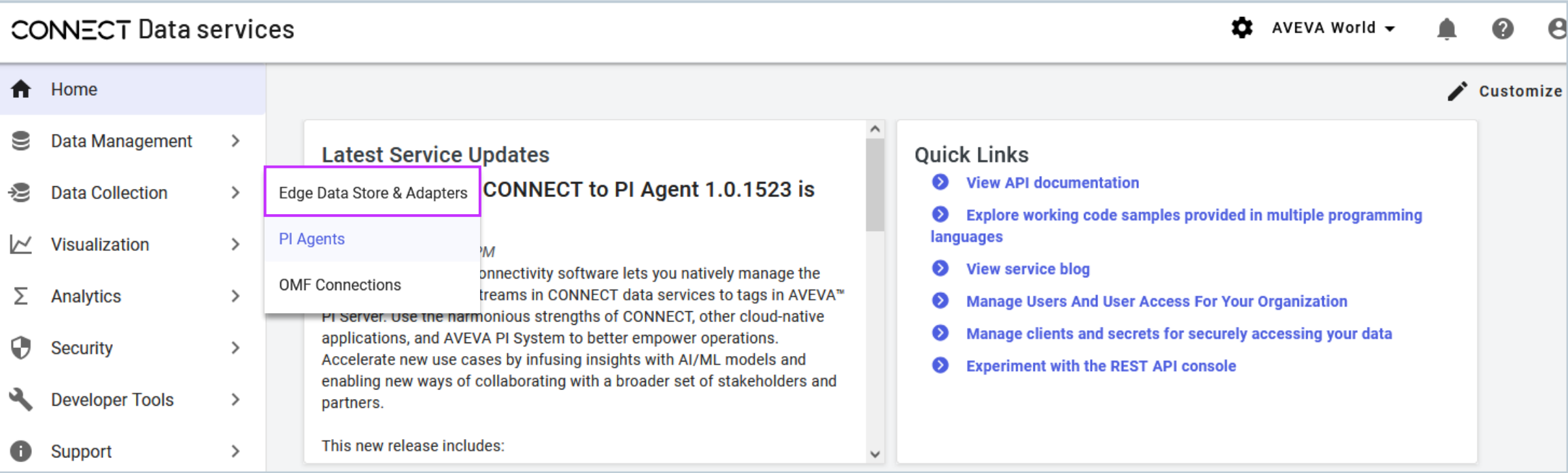
This new hybrid data connectivity software lets you natively manage the transfer of data from streams in CONNECT data services to tags in AVEVA™ PI Server. Use the harmonious strengths of CONNECT, other cloud-native applications, and AVEVA PI System to better empower operations. Accelerate new use cases by infusing insights with AI/ML models and enabling new ways of collaborating with a broader set of stakeholders and partners.

This new release includes:

Quick Links

- View API documentation
- Explore working code samples provided in multiple programming languages
- View service blog
- Manage Users And User Access For Your Organization
- Manage clients and secrets for securely accessing your data
- Experiment with the REST API console

Monitor software deployments from a central location



Monitor software deployments from a central location

CONNECT Data services ▸ Edge Data Store & Adapters

Home

Data Management >

Data Collection >

Visualization >

Analytics >

Security >

Developer Tools >

Support >

Systems ▾

Search for Systems

Status

☐ Good

☐ Starting

☐ Attempting Failover

☐ Connected / No Data

☐ Not Configured

☐ Server Error

☐ Lost Communication

☐ Device In Error

☐ Removed

☐ Shutdown

Device Name ↑	Status	Type	Version	Last Contacted	Tags
AVEVA World OPC UA 1	Good	AVEVA Adapter for OPC UA	1.5.0.373+53d55...	a few seconds ago	
AVEVA World OPC UA 2	Good	AVEVA Adapter for OPC UA	1.5.0.373+53d55...	a few seconds ago	
AVEVA World MQTT 1	Good	AVEVA Adapter for MQTT	1.3.0.103	a few seconds ago	
AVEVA World DNP3	Good	AVEVA Adapter for DNP3	1.2.0.314	a few seconds ago	

Monitor software deployments from a central location

CONNECT Data services

Edge Data Store & Adapters

Home

Data Management

Data Collection

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Systems

Search for Systems

Status

Good

Starting

Attempting Failover

Connected / No Data

Not Configured

Server Error

Lost Communication

Device In Error

Removed

Shutdown

Device Name

Status

Type

AVEVA World OPC UA 1

AVEVA World OPC UA 2

AVEVA World MQTT 1

AVEVA World DNP3

USAUSL11047

AVEVA Adapter for MQTT 1.3.0.103

Details

Configuration

Id

USAUSL11047.MQTT

Status

Good

Memory

71.5 MB

Storage Used

177 GB / 510.3 GB

35%

Last Contacted

a minute ago

Last Modified

4 months ago

Tags

Components

MQTT1

Health

Good

Type Count

1

Stream Count

21

IO Rate

0.433 event/s

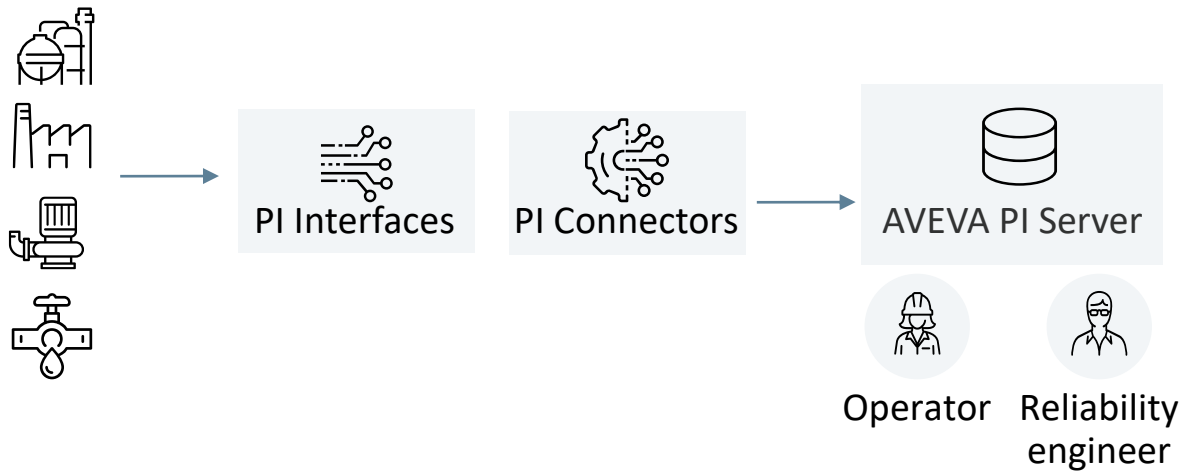
Error Rate

0 event/s

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Enabling plant-wide real-time data connectivity

Continuing investment in PI Interfaces and PI Connectors



Features

- Apply critical fixes for the OPC UA Connector and Batch Interfaces
- Overhaul PI System Connector to support greater throughput, stability, and usage
- Update OMF health for PI Interfaces

Benefits

- Promote continued usage of robust, reliable, and secure data collection technologies
- Upgrade existing technologies with the latest libraries and security updates
- Support AVEVA™ PI System™ business needs while maturing AVEVA Adapter development

What have we released in the past year?

Available today

Delivering updates to products that fuel your data infrastructure

PI Connectors

- **PI Connector for OPC UA (Gen 2)**
 - Updated DCM, Relay, Internal Libraries
 - Addressed high-priority issues
- **PI System Connector**
 - Stability for large scale transfers
 - Enhanced performance
- **PI Connector for CygNet**
 - Improve automatic VHS/CSV selection
 - Update framework

PI Interfaces

- **PI Interfaces for Modbus Ethernet PLC, OPC HDA**
 - Update OMF health
 - Address high-priority issues
- **PI Batch Interfaces for Emerson DeltaV, Siemens SIMATIC**
 - Update framework
 - Address high-priority issues

What are we releasing next?

In development

Delivering updates to products that fuel your data infrastructure

PI Connectors

- **AVEVA PI System Connector Generation 3**
 - Reduce complexity
 - Increase health information
 - Improve scale and performance
 - Update user experience

PI Interfaces

- **Various protocols**
 - OPC DA, DNP3, RDBMS, UFL, PI to PI, Perfmon, SNMP, TCP Response
 - Update OMF health
 - Address high-priority issues

Capabilities of the Enterprise SCADA Agent for PI and CONNECT

Supporting evolving needs beyond the PI OASyS Interface

Today

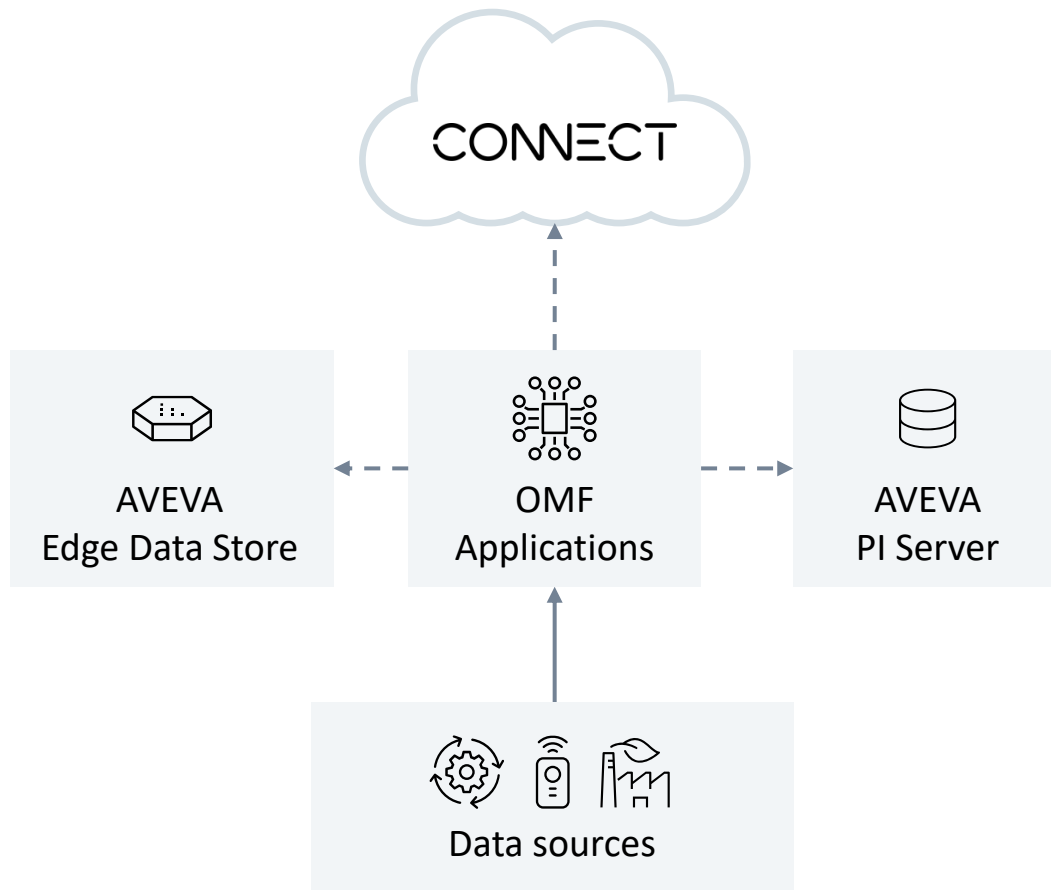
- **Data Transfer to on-prem PI Server**
- **Data Sampling Options**
 - Periodic or event-based
- **Conversions and Extensions**
 - Data type conversion and custom quality checks
- **Security and Authentication**
 - Support for Windows Authentication

Tomorrow

- **Data Transfer to PI Server and CONNECT**
- **Flexible Topologies**
 - Support for web proxies and multiple endpoints
- **Enhanced Administration Experience**
 - Simplified administration
- **Security and Deployment**
 - Zero-trust authentication

Homogenous connectivity to AVEVA systems

Open Message Format (OMF) | Scalable application development for edge-to-cloud



Features

- Specification is public and available to all
- Agnostic of hardware, vendor, operating system, etc.
- Standardized REST API endpoints for ease of use

Benefits

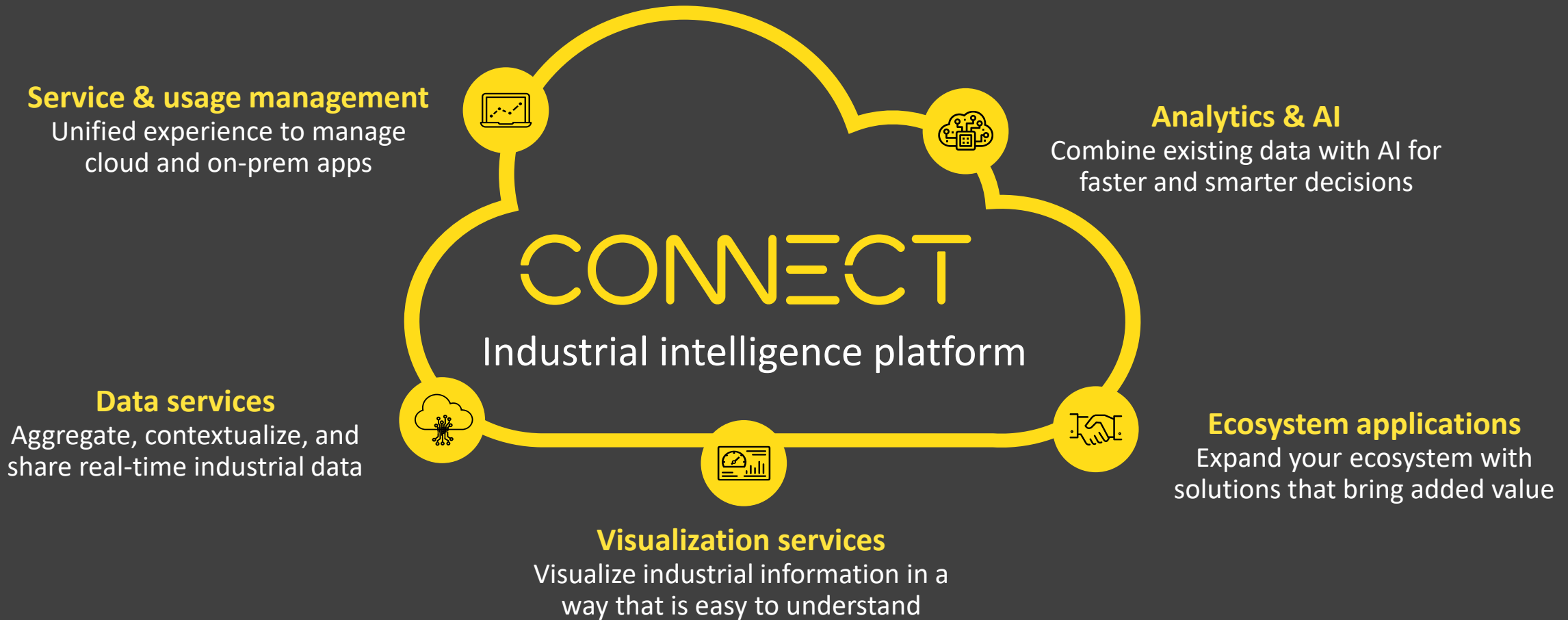
- Inbound and outbound connectivity provides interoperability between:
 - AVEVA Adapters
 - AVEVA PI Server
 - AVEVA Edge Data Store
 - CONNECT data services
- Provides maximum developer flexibility
- Tailor ingress/egress to custom requirements

PI Agents in CONNECT data services

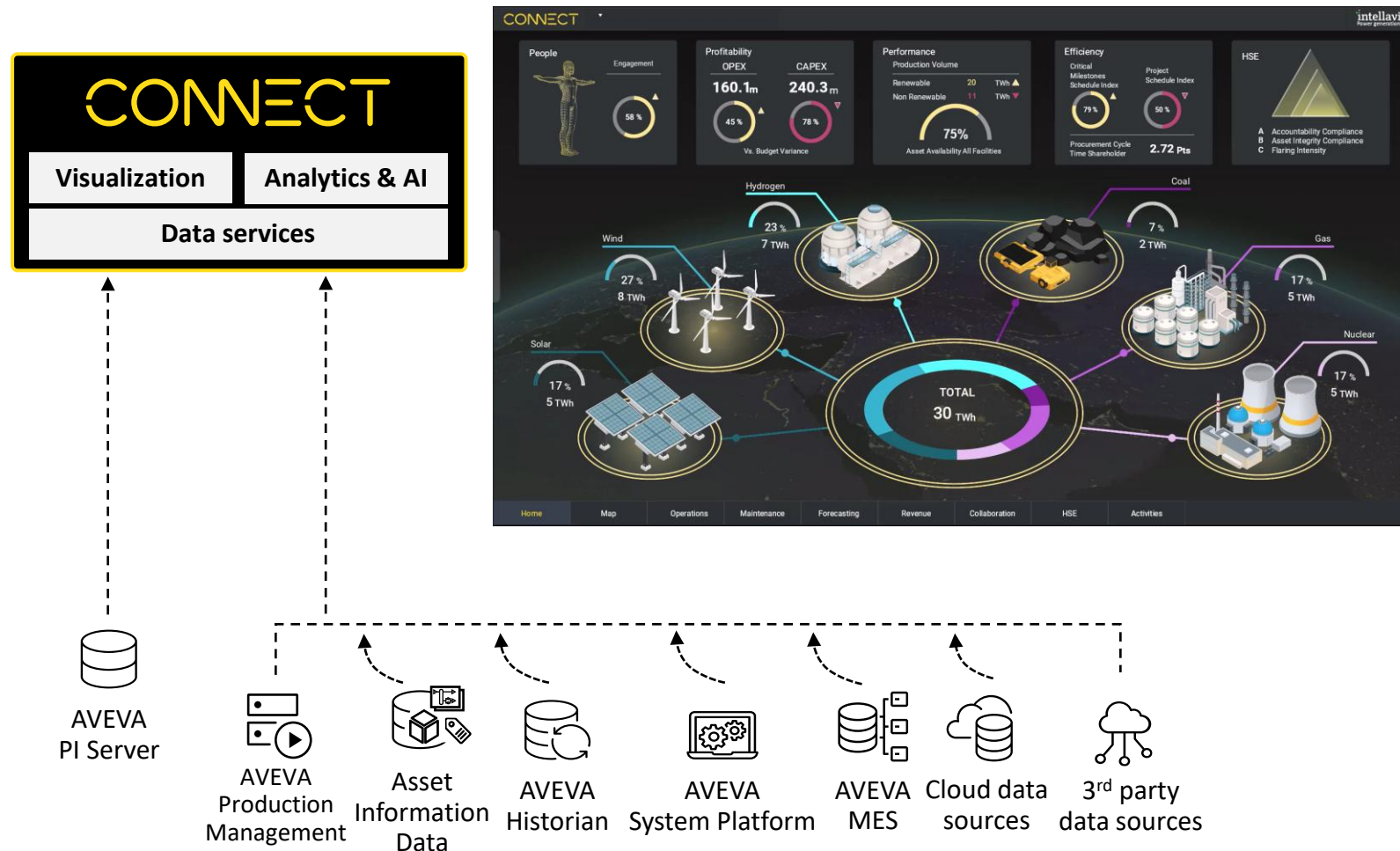
Breaking down barriers between operations and enterprise environments



Open and neutral, providing rich insights for your unified industrial ecosystem



Elevate the value of operations data across your enterprise



Centralize important data and view at scale from a single portal

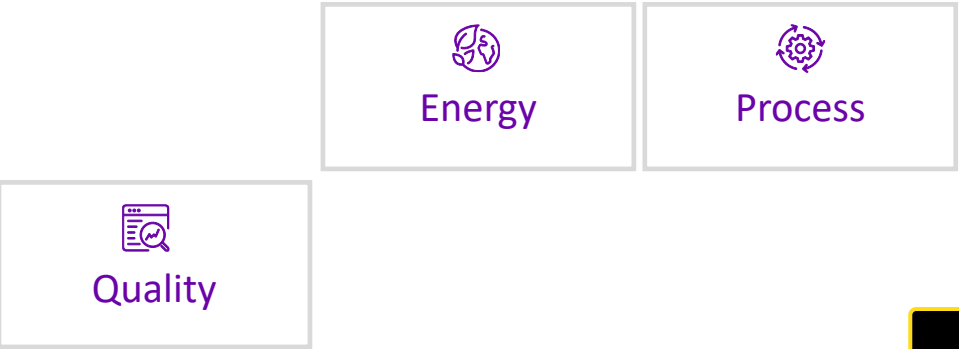
Aggregate data from many sources across the enterprise

A single pane of glass to visualize all enterprise data

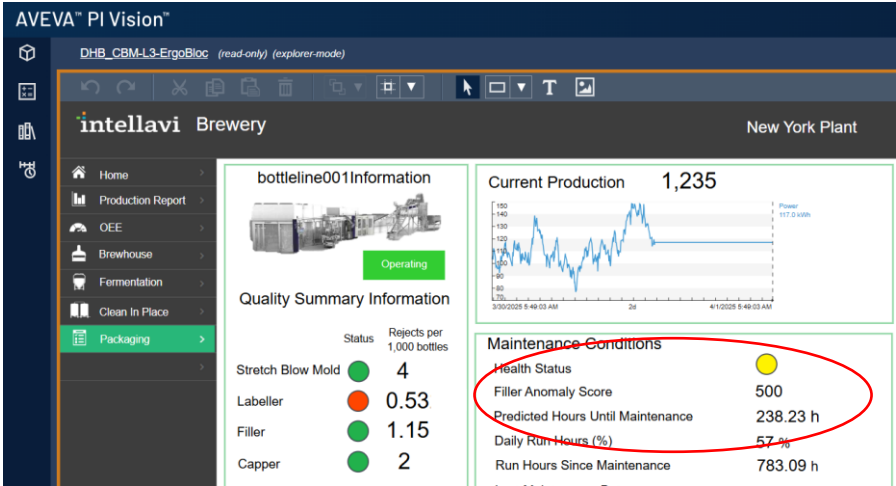
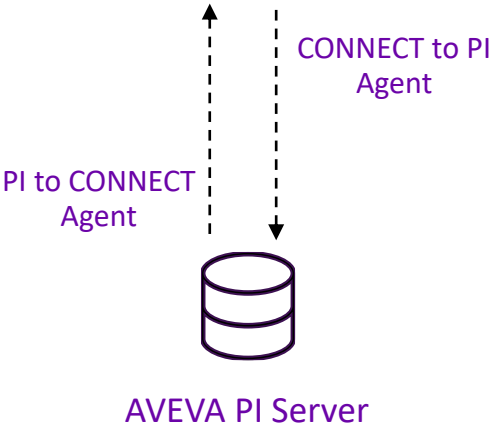
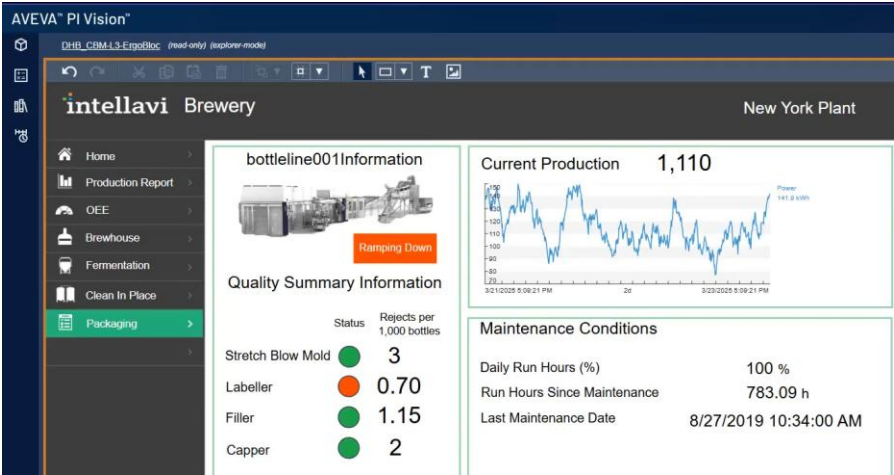
Perform advanced analytics and apply AI/ML models on operations data

Quality optimization, energy efficiency, and process optimization

AVEVA Advanced Analytics and AVEVA PI Data Infrastructure

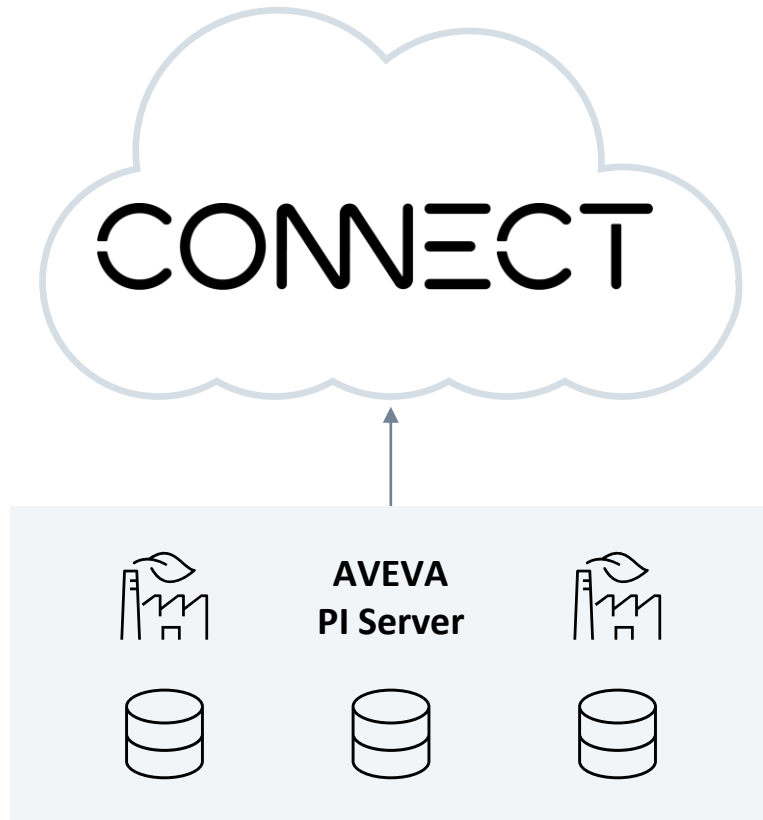


AVEVA Advanced Analytics



Centralize and scale your operations data

Use PI to CONNECT Agent to send Data Archive and AF data to CONNECT



Features

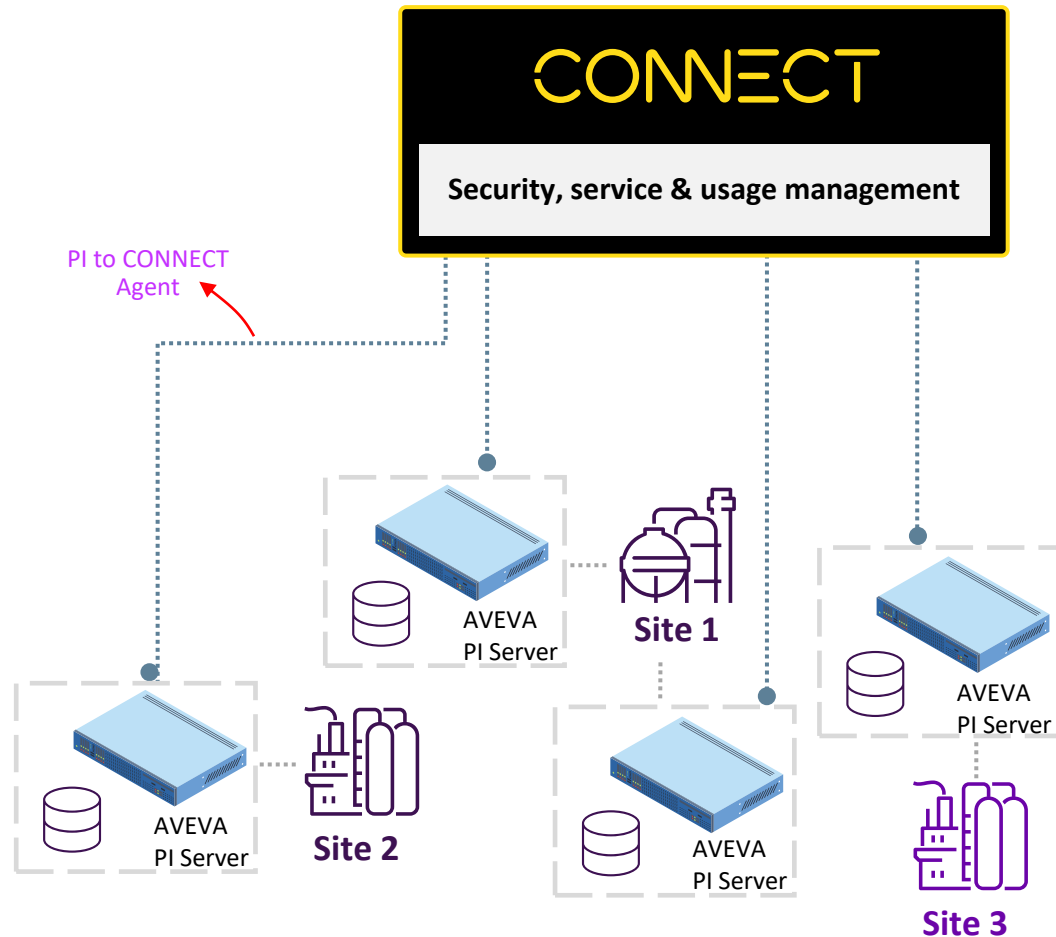
- Send data from AVEVA PI Server to CONNECT
 - Automatic synchronization of PI Tags, values, assets and attributes
 - Stream real-time data and perform history recovery
- Monitor transfer status with health statistics
- Report usage for Aggregate Tag customers

Benefits

- Centralize important assets and streams
 - View data at scale from a single, feature-rich portal
- Utilize CONNECT ecosystem to:
 - Perform advanced analytics and apply AI/ML models on operations data
 - Expose stream data to custom or partner applications
 - Visualize data across the entire enterprise

Aggregate tag licensing

Faster, more flexible way to meet changing business needs



Flexible architecture in support of enterprise needs

Automatic reporting of PI Server tag usage

Central monitoring of tag usage in CONNECT

Spread tags across multiple PI Servers and flexibly architect deployments

Deploy new PI Servers without any additional purchase

Tag count reporting using PI to CONNECT Agent

Centralize and scale your operations data

Use PI to CONNECT Agent to send Data Archive and AF data to CONNECT

CONNECT Data services

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Customize

Centralize and scale your operations data

Use PI to CONNECT Agent to send Data Archive and AF data to CONNECT

The screenshot displays the AVEVA CONNECT Data services web interface. The top navigation bar includes the title 'CONNECT Data services', a settings gear icon, 'AVEVA World' with a dropdown arrow, and icons for notifications, help, and user profile. A 'Customize' button with a pencil icon is located on the right. The left sidebar contains a menu with the following items: Home, Data Management, Data Collection, Visualization, Analytics, Security, Developer Tools, and Support. The 'Data Management' menu is expanded, showing a sub-menu with 'Edge Data Store & Adapters', 'PI Agents' (highlighted with a purple border), and 'OMF Connections'. The main content area features a 'Latest Service Updates' section with the heading 'CONNECT to PI Agent 1.0.1523 is' and a description of the new release. To the right of this section is a 'Quick Links' box containing several links: 'View API documentation', 'Explore working code samples provided in multiple programming languages', 'View service blog', 'Manage Users And User Access For Your Organization', 'Manage clients and secrets for securely accessing your data', and 'Experiment with the REST API console'.

Centralize and scale your operations data

Use PI to CONNECT Agent to send Data Archive and AF data to CONNECT

CONNECT Data services ▸ PI Agents

AVEVA World

Home

Data Management >

Data Collection >

Visualization >

Analytics >

Security >


Developer Tools >


PI to CONNECT Agents ▾


Filter Agents...


Download Agent


Description ↑	Status	Version	Data Archive	AF Server	Region	Namespace	Host Name
CD-AWC24-PISRV via CD-AWC24-P...	Good	2.2.1567.0	CD-AWC24-PISRV	CD-AWC24-PISRV	westus	AVEVA World	CD-AWC24-PIWEB....
CSPI-OIDC Agent	Good	2.2.1567.0	CSPI-OIDC	CSAF-OIDC	westus	AVEVA World	CSPI-OIDC
Big Buffalo Wind Farm	Good	2.2.1567.0	APM-PI-PA	APM-PI-PA	westus	AVEVA World	APM-PI-PA


 Home


 Data Management ▸


 Data Collection ▸

 Visualization ▸

 Analytics ▸


 Security ▸

 Developer Tools ▸

 Support ▸

PI to CONNECT Agents ▾

Filter Agents...

 Download Agents

Description ↑	Status	Version	Data Archive	AF Server
CD-AWC24-PISRV via CD-AWC24-P...	✓ Good	✓ 2.2.1567.0	CD-AWC24-PISRV	CD-AWC24...
CSPI-OIDC Agent	✓ Good	✓ 2.2.1567.0	CSPI-OIDC	CSAF-OIDC
Big Buffalo Wind Farm	✓ Good	✓ 2.2.1567.0	APM-PI-PA	APM-PI-PA

CD-AWC24-PISRV via CD-AWC24-PIW... ⋮ ×

Manage Agent

Transfer Metrics

Agent Overview

Agent Description

CD-AWC24-PISRV via CD-AWC24-...

Agent Namespace

AVEVA World

Agent Host Name

CD-AWC24-PIWEB.dev.osisoft.int

Agent Status

✓ Registered

Agent Version

✓ 2.2.1567.0

AF Server Index Status

✓ Succeeded ↻

PI Points Index Status

✓ Succeeded ↻

Communication Time

Sep 11, 2024, 11:25:41 AM

Transfer Overview

Transfer Name

Wind

Transfer Description

Transfer Status


✓ Started


Current Activity


Sending Streaming Data

Last Modified

Sep 9, 2024, 3:13:19 AM

 View/Edit Transfer

 Remove Transfer

 Stop Transfer

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Centralize and scale your operations data

Use PI to CONNECT Agent to send Data Archive and AF data to CONNECT

Wind ?

Edit Mode

Show Implicit PI Points ?

View Details

AF Elements (9)		Explicit PI Points (Explicit: 3, Implicit: 64)		
Element ↑	Description	Template	Categories	
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP1		PizzaStar		
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP2		PizzaStar		
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP3		PizzaStar		
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP4		JCar SuperVan		
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP5		JCar SuperVan		
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP6		JCar SuperVan		
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP7		StoreRunner		
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP8		StoreRunner		
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP9		Vehicle		

Centralize and scale your operations data

Use PI to CONNECT Agent to send Data Archive and AF data to CONNECT

Wind ?	Wind ? Edit Mode	
<input checked="" type="checkbox"/> Show Implicit PI Points ?	<input checked="" type="checkbox"/> Show Implicit PI Points ?	View Details
AF Elements (9)	AF Elements (9)	Explicit PI Points (Explicit: 3, Implicit: 64)
Element ↑	PI Point ↑	Reference Type ?
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP1	cdt158	Explicit
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP2	intensedata	Explicit
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP3	SINUSOID	Explicit
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP4	SP1.EngT	Implicit
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP5	SP1.GasLvl	Implicit
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP6	SP1.OilLvl	Implicit
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP7	SP1.OvenT	Implicit
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP8	SP1.Speed	Implicit
\OIDC Speedys Pizza\Speedys Pizza\Vehicles\SP9	SP1.Timer	Implicit
	SP1.Trip	Implicit

CONNECT to AVEVA PI Server

Available today

CONNECT to PI Agent: Write back from CONNECT to AVEVA PI Server

CONNECT to PI Agent



Features

- Transfer CONNECT data streams to PI Tags
- Works with real-time, historical, and future data streams
- Supports backfilling and transfer to high availability collectives
- Manage CONNECT to AVEVA PI Server data flows centrally from the cloud
- Authenticate via OIDC, Kerberos or basic

Benefits

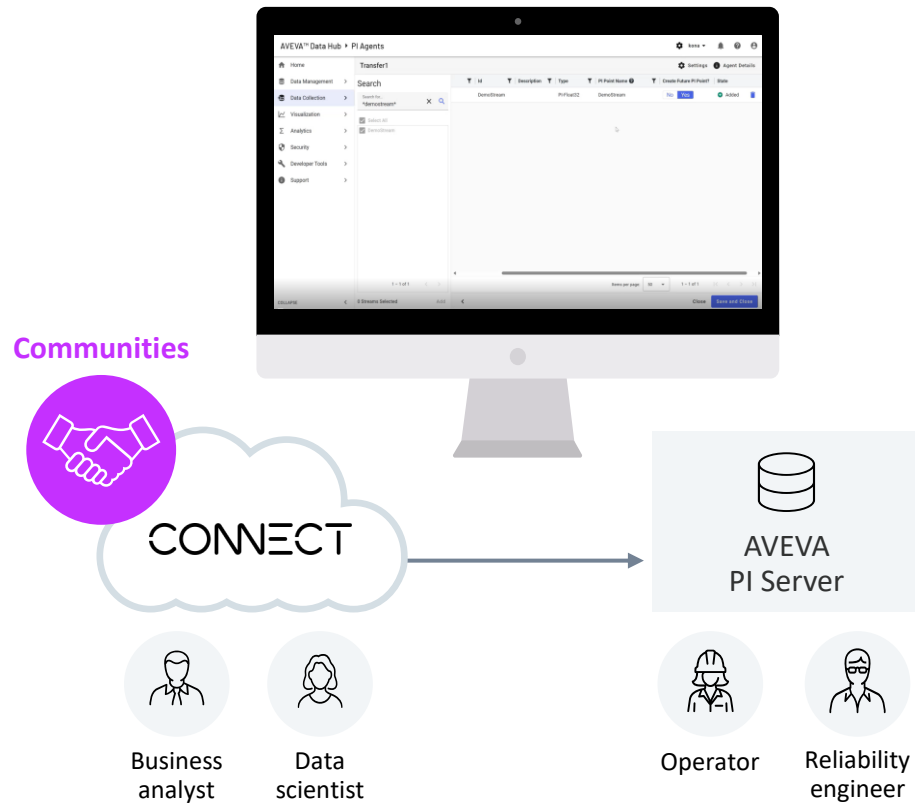
- Advanced analytics capabilities in the cloud bring results and insights back on-premises
- Enhance collaboration between operations experts and data scientists
- Empower operations with advanced analytics insights using familiar tools and existing workflows

CONNECT to AVEVA PI Server

Available today

CONNECT to PI Agent: Support for community streams

CONNECT to PI Agent



Features

- Transfer community streams to AVEVA PI Server
- Works with real-time, historical, and future data streams
- Supports backfilling and transfer to high availability collectives
- Supports multiple transfers, enabling data transfer from all communities

Benefits

- Facilitate easy and secure data exchange among engineers and operational partners
- Collaboratively streamline operations and minimize waste through shared operations data
- Detect and troubleshoot equipment and process problems with insights from your partners' enterprise and expertise

Bring analysis results to the plant floor

Use CONNECT to PI Agent to send KPIs and advanced analytic results to the Data Archive

CONNECT Data services ▸ PI Agents

AVEVA World

Home

Data Management >

Data Collection >

Visualization >

Analytics >

Security >

Developer Tools >

PI to CONNECT Agents ▾

Filter Agents...

Download Agent

Description ↑	Status	Version	Data Archive	AF Server	Region	Namespace	Host Name
CD-AWC24-PISRV via CD-AWC24-P...	Good	2.2.1567.0	CD-AWC24-PISRV	CD-AWC24-PISRV	westus	AVEVA World	CD-AWC24-PIWEB....
CSPI-OIDC Agent	Good	2.2.1567.0	CSPI-OIDC	CSAF-OIDC	westus	AVEVA World	CSPI-OIDC
Big Buffalo Wind Farm	Good	2.2.1567.0	APM-PI-PA	APM-PI-PA	westus	AVEVA World	APM-PI-PA

Bring analysis results to the plant floor

Use CONNECT to PI Agent to send KPIs and advanced analytic results to the Data Archive

CONNECT Data services ▶ PI Agents

Home

Data Management >

Data Collection >

Visualization >

Analytics >

Security >

Developer Tools >

PI to CONNECT Agents ▼

PI to CONNECT Agents ✓

CONNECT to PI Agents

Filter Agents...

Download Agent

Status	Version	Data Archive	AF Server	Region	Namespace	Host Name
Good	2.2.1567.0	CD-AWC24-PISRV	CD-AWC24-PISRV	westus	AVEVA World	CD-AWC24-PIWEB....
Good	2.2.1567.0	CSPI-OIDC	CSAF-OIDC	westus	AVEVA World	CSPI-OIDC
Good	2.2.1567.0	APM-PI-PA	APM-PI-PA	westus	AVEVA World	APM-PI-PA

Bring analysis results to the plant floor

Use CONNECT to PI Agent to send KPIs and advanced analytic results to the Data Archive

CONNECT Data services ▶ PI Agents

⚙️ AVEVA World 🔔 ? 👤

🏠 Home

🗄️ Data Management >

➡️ Data Collection >

📈 Visualization >

Σ Analytics >

🛡️ Security >

🔧 Developer Tools >

📄 Support >

CONNECT to PI Agents ▼

Filter Agents

⬇️ Download Agent

Name	Status	Version	Namespaces	Data Archive	Transfer Count
CD-AWC24-CTP	✔️ Good	1.0.1523.0	AVEVA World	CD-AWC24-PISRV	2
PRGDEM01	✔️ Good	1.0.1523.0	AVEVA World	PRGDEM01	8
USOAK	✔️ Good	1.0.1523.0	AVEVA World	USOAK	6

Bring analysis results to the Data Archive

Use CONNECT to PI Agent to send KPIs

CONNECT Data services ▸ PI Agents

Home

Data Management >

Data Collection >

Visualization >

Analytics >

Security >

Developer Tools >

Support >

CONNECT to PI Agents ▾

Name	Status
CD-AWC24-CTP	Good
PRGDEMO1	Good
USOAK	Good

CD-AWC24-CTP

Status

Good

Monitor

Configuration Namespace

AVEVA-Events

PI Data Archive

CD-AWC24-PISRV

Version

1.0.1145.0

Last Contacted

a few seconds ago

Transfers (2)

Add Transfer

AnomalyScore

Status

Good

Namespace

AVEVA-Events

Stream Count

9

Modes

Streaming

Edit

View

Monitor

Stop

Remove

Transfer1

Status

Good

Namespace

AVEVA-Events

Stream Count

9

Modes

Streaming

Edit

View

Monitor

Stop

Remove

AVEVA World

Download Agent

	Data Archive	Transfer Count
world	CD-AWC24-PISRV	2
world	PRGDEMO1	8
world	USOAK	6

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AVEVA

Bring analysis results to the plant floor

Use CONNECT to PI Agent to send KPIs and advanced analytic results to the Data Archive

CD-AWC24-CTP

Status
Good

Configuration Namespace
AVEVA-Events

PI Data Archive
CD-AWC24-PISTRY

Version
1.0.1143.0

Last Contacted
a few seconds ago

Transfers (2)

AnomalyScore

Status
Good

Namespace
AVEVA-Events

Stream Count
9

Modes
Streams

Edit View

Stop

Transfer1

Status
Good

Namespace
AVEVA-Events

Stream Count
9

Modes
Streams

Edit View Monitor

Stop Remove

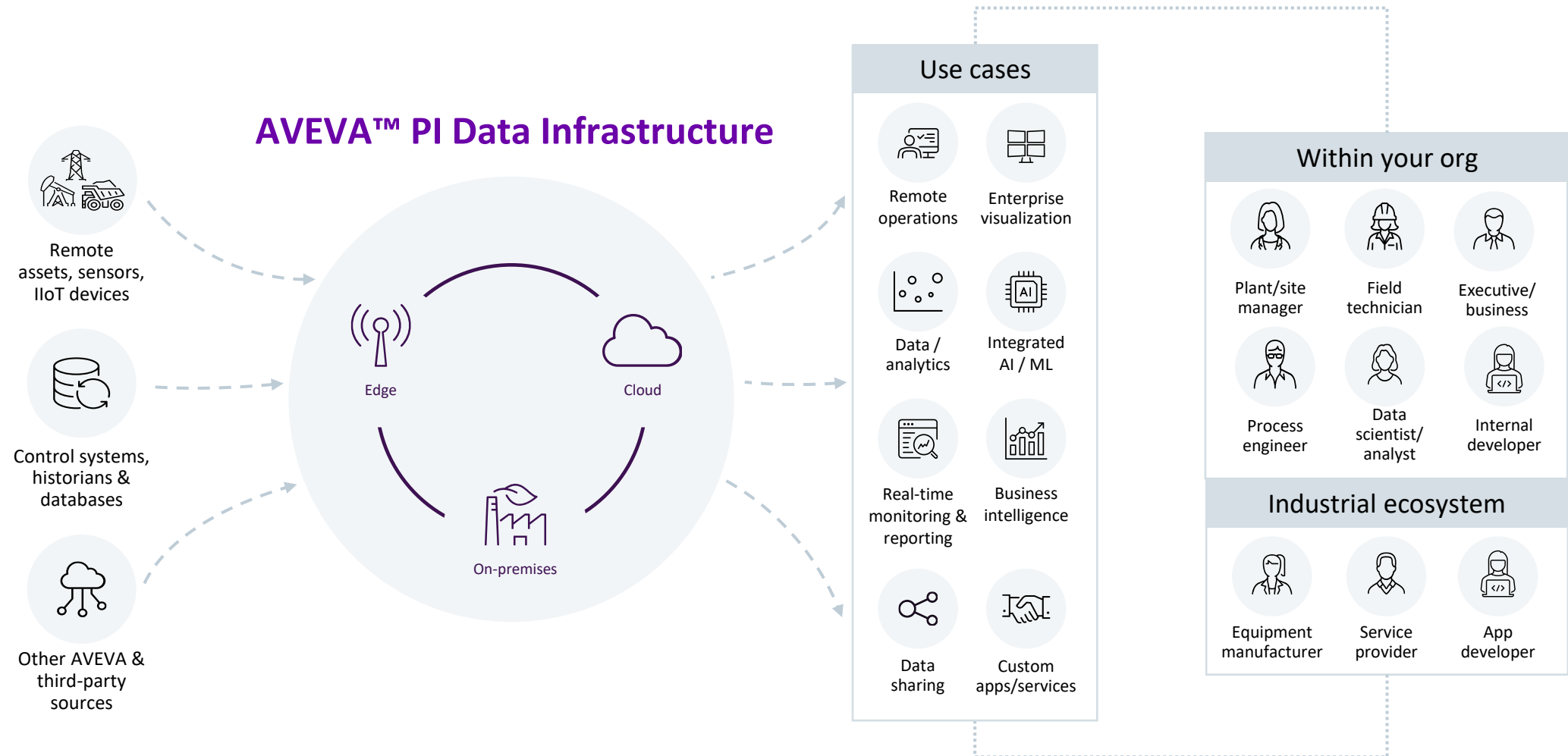
AnomalyScore

View Mode

<input type="checkbox"/>	Name	Id	Type	PI Point Name	Create Future PI Point?	State
<input type="checkbox"/>	Gearbox Anomaly Score_1...	Gearbox Anom...	TwinThread-Fl...	Gearbox Anomaly Score_118_GE08	No Yes	Saved
<input type="checkbox"/>	Gearbox Anomaly Score_1...	Gearbox Anom...	TwinThread-Fl...	Gearbox Anomaly Score_118_GE05	No Yes	Saved
<input type="checkbox"/>	Gearbox Anomaly Score_1...	Gearbox Anom...	TwinThread-Fl...	Gearbox Anomaly Score_118_GE07	No Yes	Saved
<input type="checkbox"/>	Gearbox Anomaly Score_1...	Gearbox Anom...	TwinThread-Fl...	Gearbox Anomaly Score_118_GE01	No Yes	Saved
<input type="checkbox"/>	Gearbox Anomaly Score_1...	Gearbox Anom...	TwinThread-Fl...	Gearbox Anomaly Prediction 118_GE01	No Yes	Saved
<input type="checkbox"/>	Gearbox Anomaly Score_1...	Gearbox Anom...	TwinThread-Fl...	Gearbox Anomaly Prediction 118_GE03	No Yes	Saved
<input type="checkbox"/>	Gearbox Anomaly Score_1...	Gearbox Anom...	TwinThread-Fl...	Gearbox Anomaly Score_118_GE03	No Yes	Saved
<input type="checkbox"/>	Gearbox Anomaly Score_1...	Gearbox Anom...	TwinThread-Fl...	Gearbox Anomaly Score_118_GE09	No Yes	Saved
<input type="checkbox"/>	Gearbox Anomaly Score_1...	Gearbox Anom...	TwinThread-Fl...	Gearbox Anomaly Prediction 118_GE09	No Yes	Saved

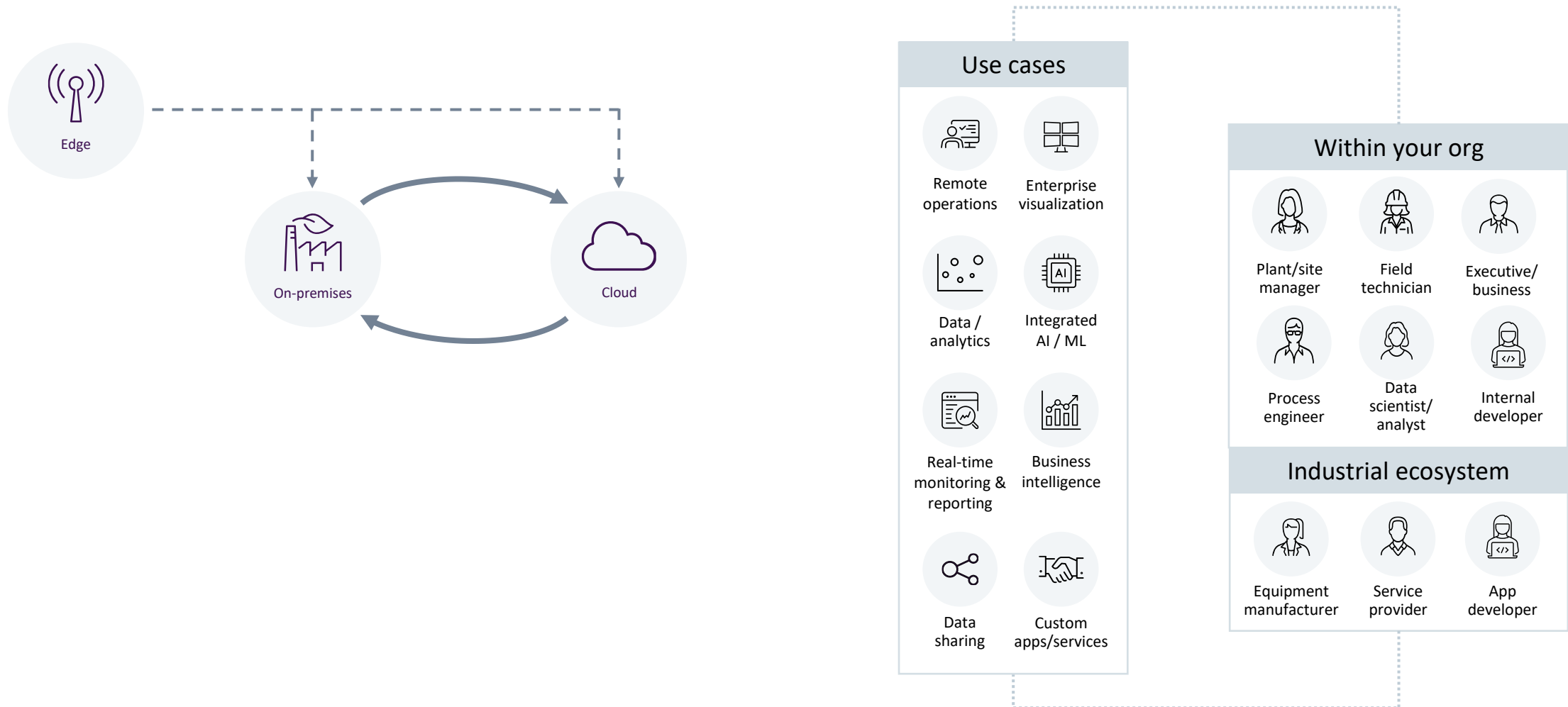
Hybrid data infrastructure

From edge to plant to community



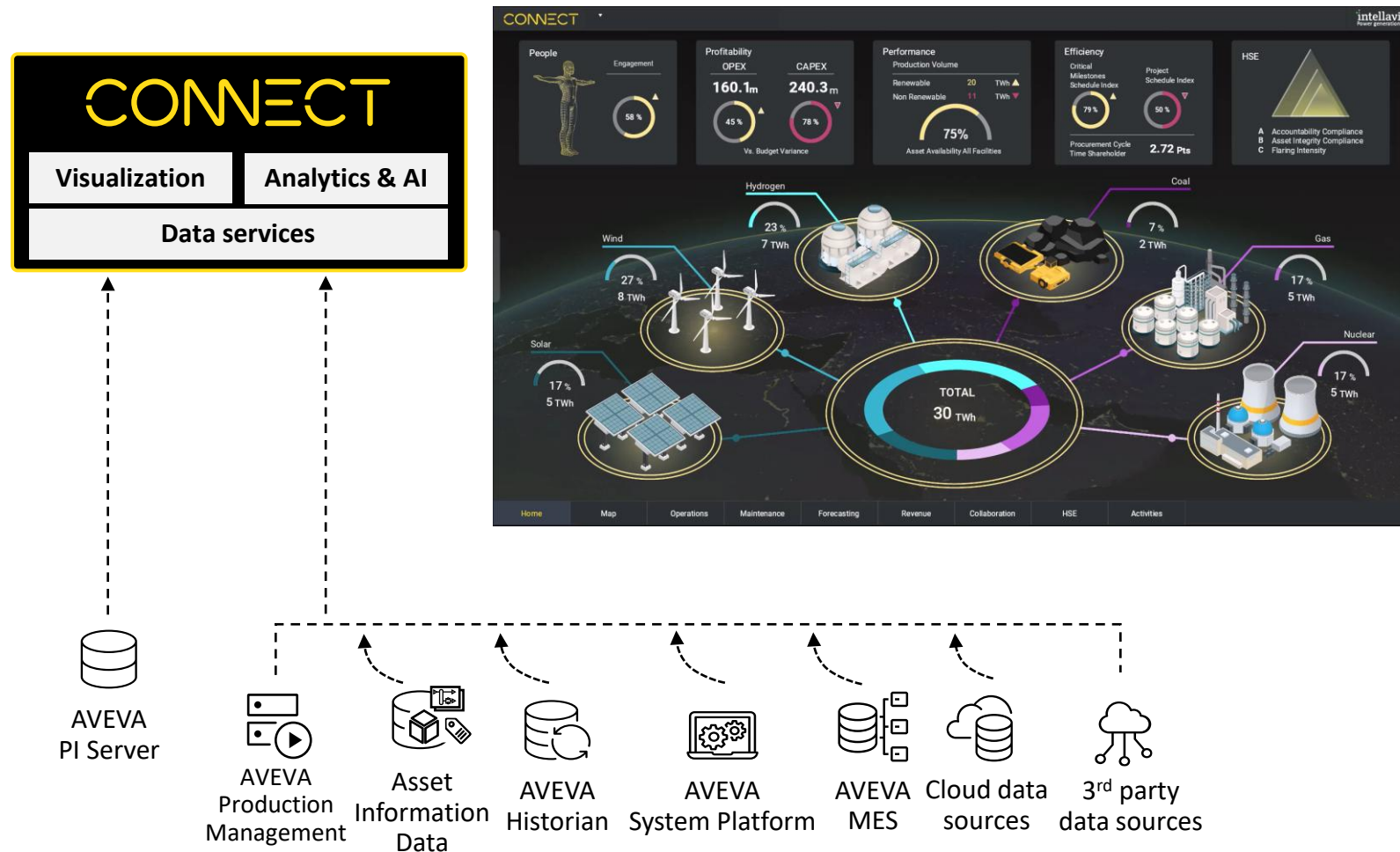
Merging the best of both worlds

Marry the power of the cloud with industry-leading AVEVA PI Server capabilities



Summary

Elevate the value of operations data across your enterprise



Centralize important data and view at scale from a single portal

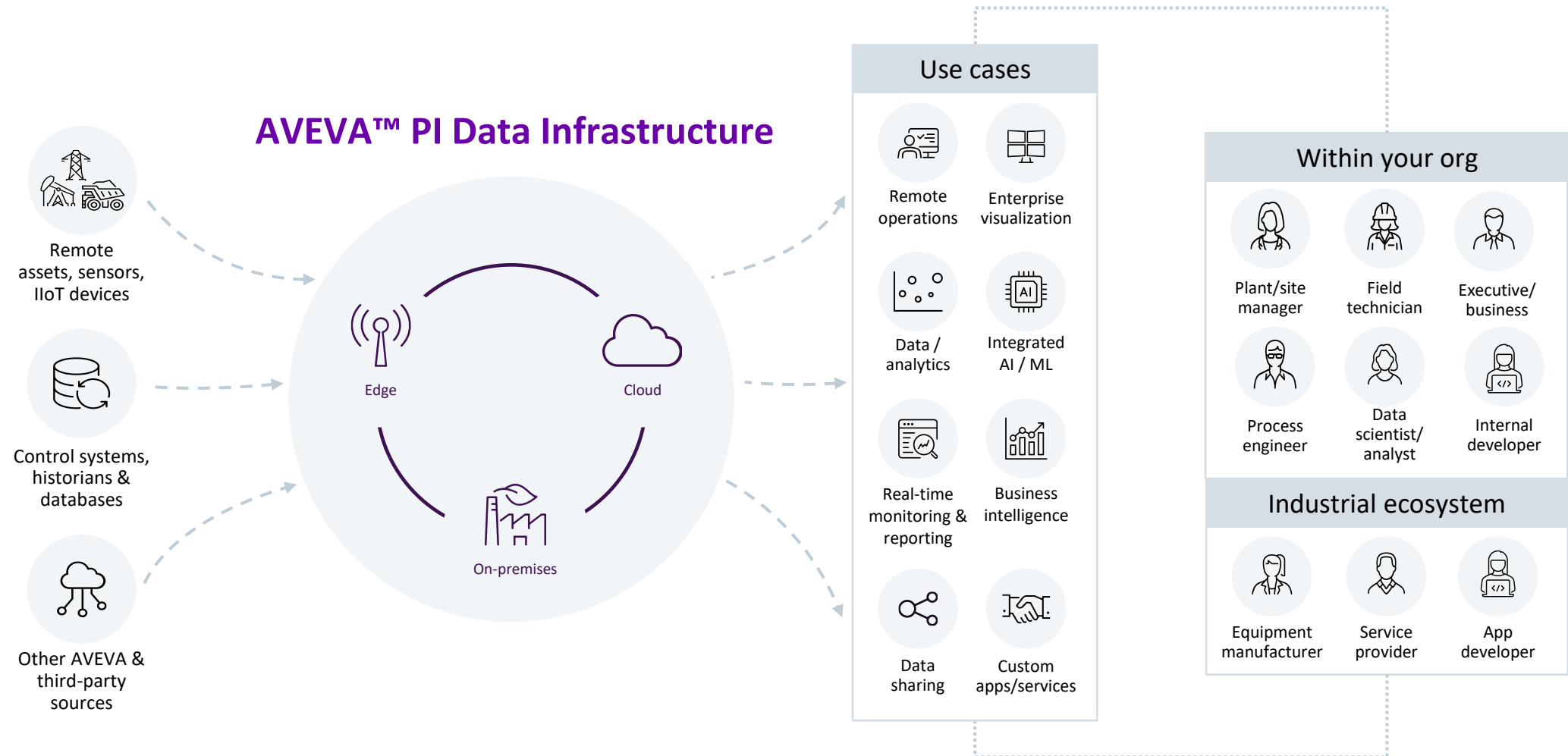
Aggregate data from many sources across the enterprise

A single pane of glass to visualize all enterprise data

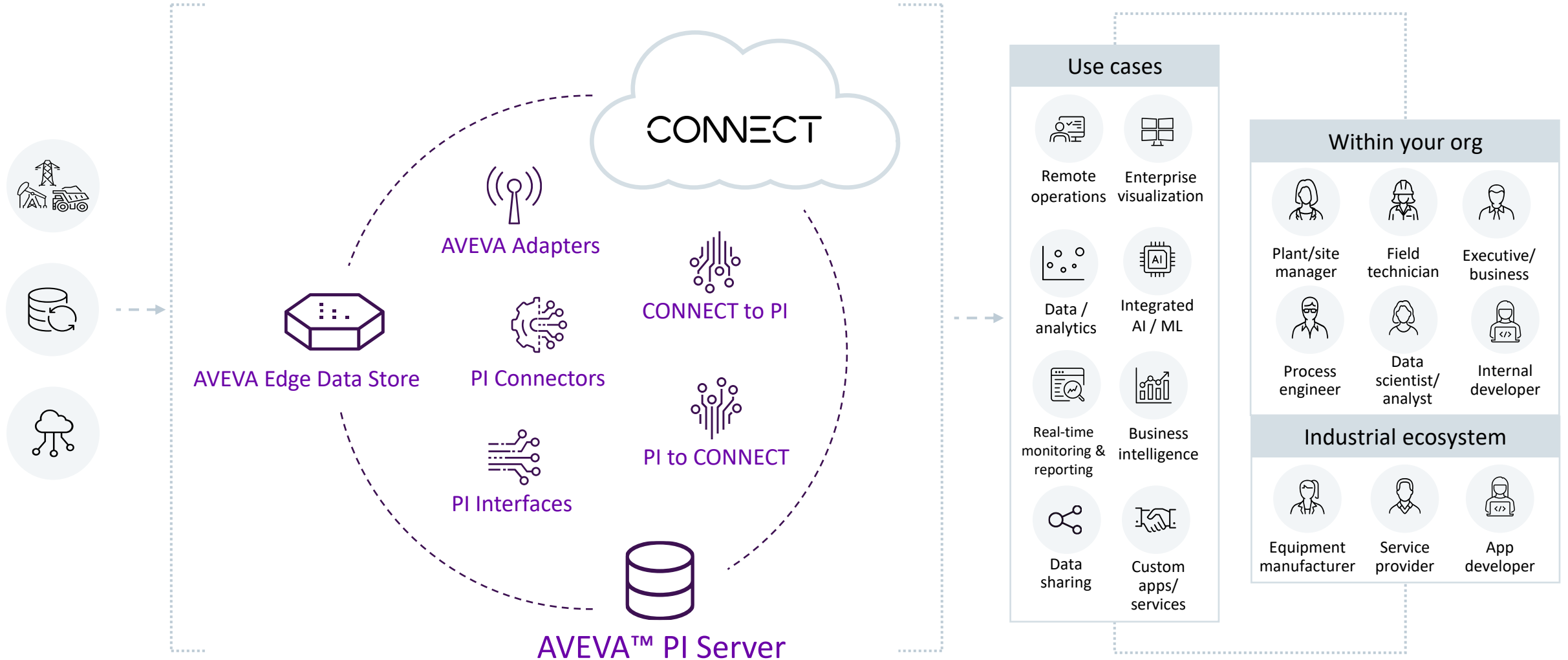
Perform advanced analytics and apply AI/ML models on operations data

Hybrid data infrastructure

From edge to plant to community



Extending the on-premises value with a hybrid offering



Ellery Murdock

Senior Technical Product Manager

AVEVA

william.murdock@aveva.com



Visit us!

Stop by these booths in the Innovation Zone for demos and additional information:

**Extend value through
AVEVA PI Data Infrastructure**
in the CONNECT area

**Transform real-time data into
actionable information with AVEVA PI Server**
in the Operate & Optimize area

**Visualize your operations data with
AVEVA PI Vision**
in the Operate & Optimize area



Questions?



Please wait for the microphone.
State your name and company.

Please remember to...

Navigate to this session in the
mobile app to complete the survey.

Thank you!

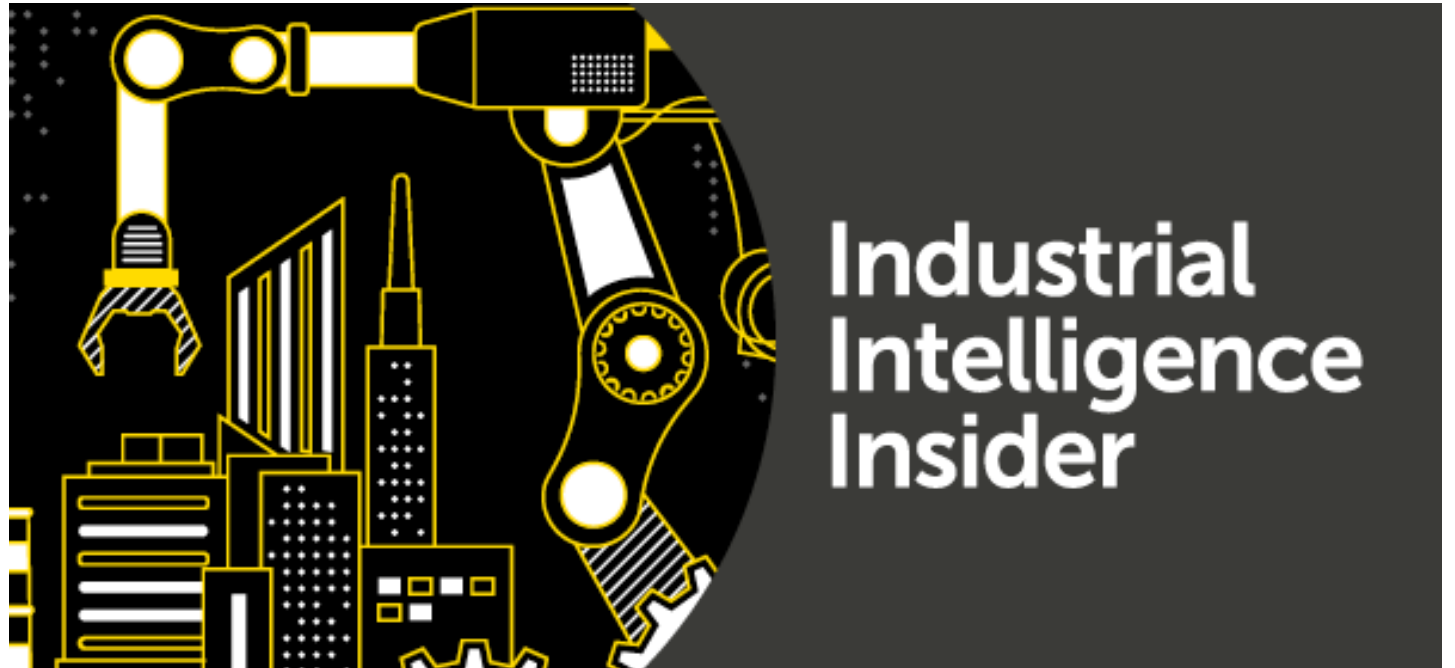


New! Industrial Intelligence Insider Newsletter

Stay up to date with the latest product news on AVEVA and CONNECT

Each issue includes:

- Key industry insights & trends
- Product release updates
- Event details
- And more!



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ABOUT AVEVA

AVEVA is a world leader in industrial software, providing engineering and operational solutions across multiple industries, including oil and gas, chemical, pharmaceutical, power and utilities, marine, renewables, and food and beverage. Our agnostic and open architecture helps organizations design, build, operate, maintain and optimize the complete lifecycle of complex industrial assets, from production plants and offshore platforms to manufactured consumer goods.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. The company is headquartered in Cambridge, UK.

Learn more at www.aveva.com