

AVEVA WORLD

AVEVAWORLD

APRIL 8, 2025

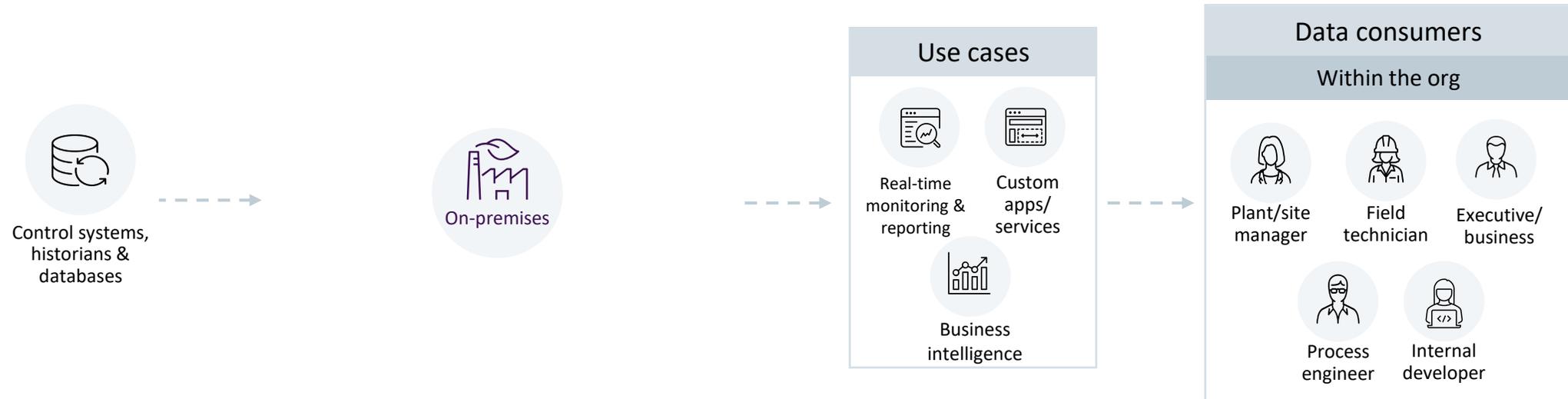
Fueling your data infrastructure with AVEVA connectivity

Ellery Murdock – Senior Technical Product Manager

AVEVA

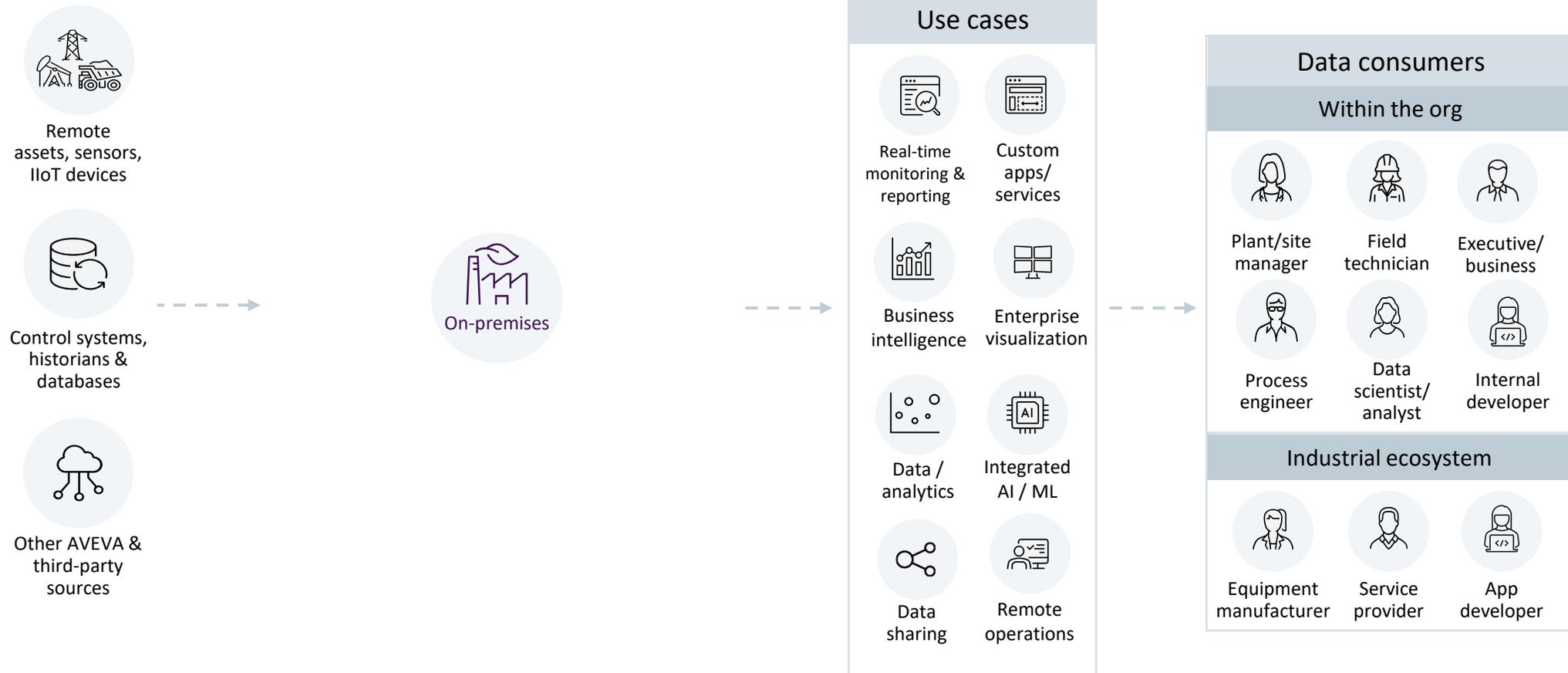
Supporting evolving data needs

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



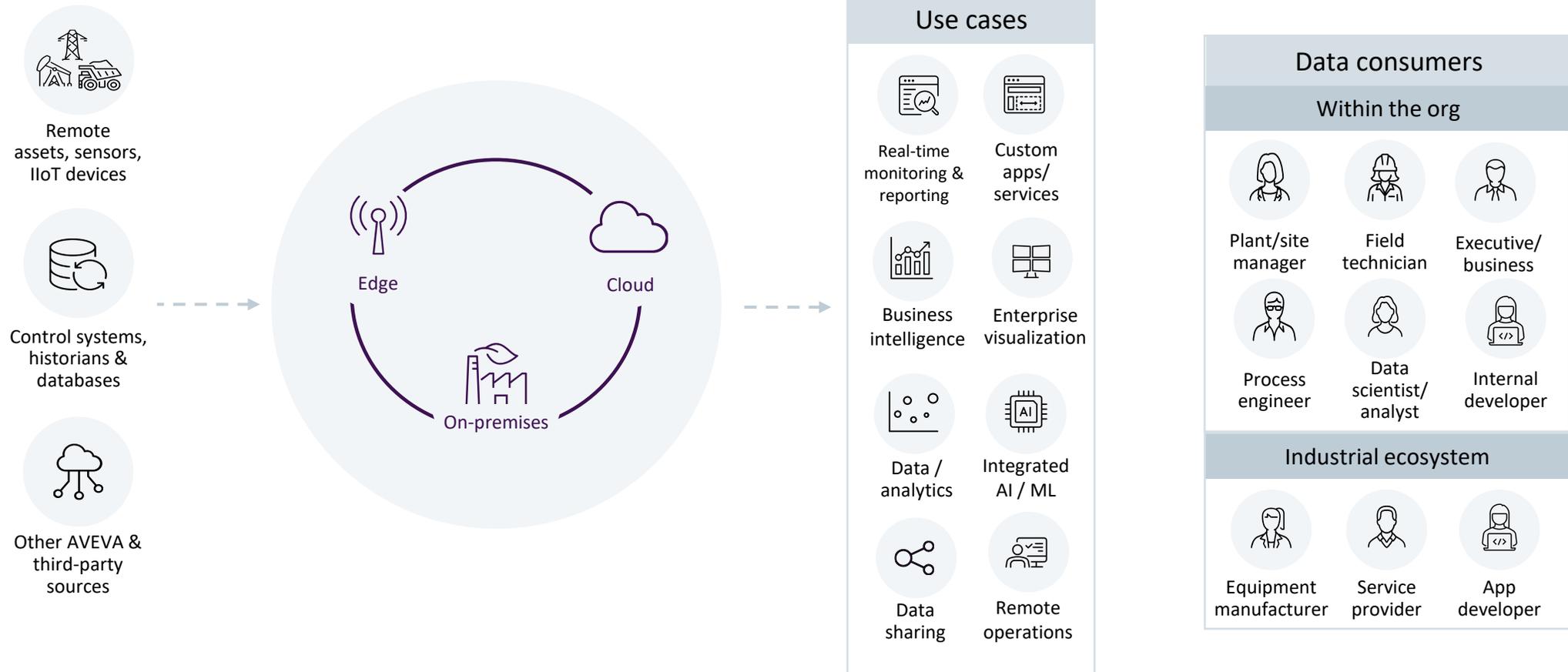
Supporting evolving data needs

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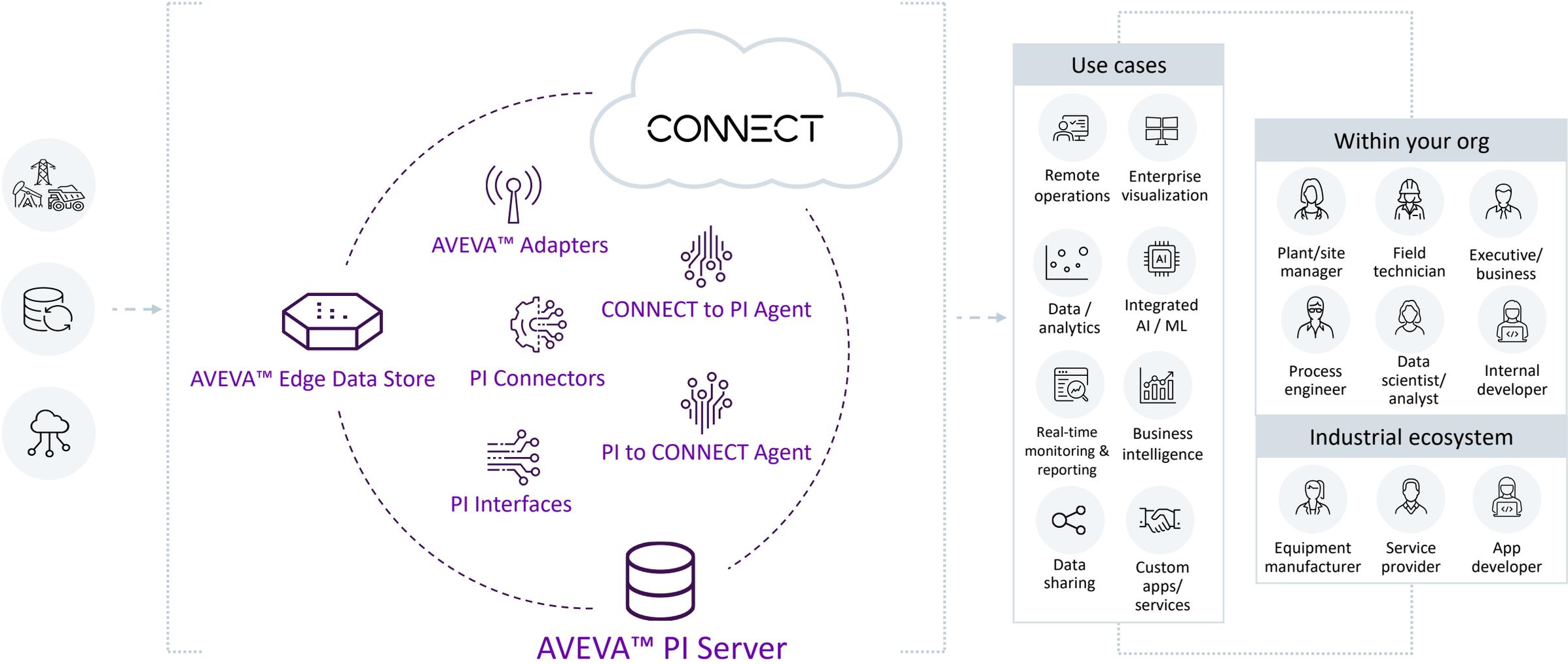


Supporting evolving data needs

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

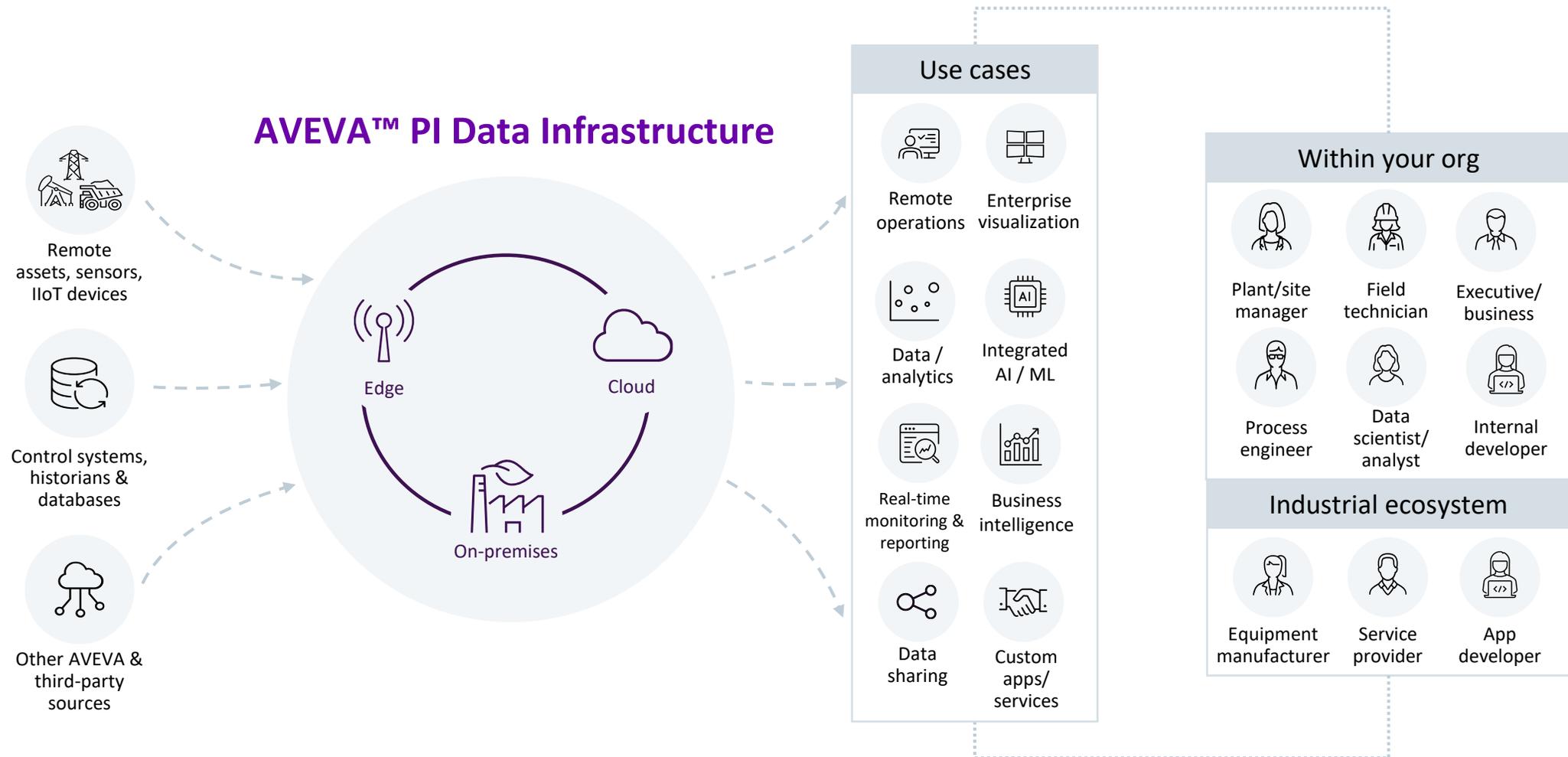


Extending the on-premises value with a hybrid offering



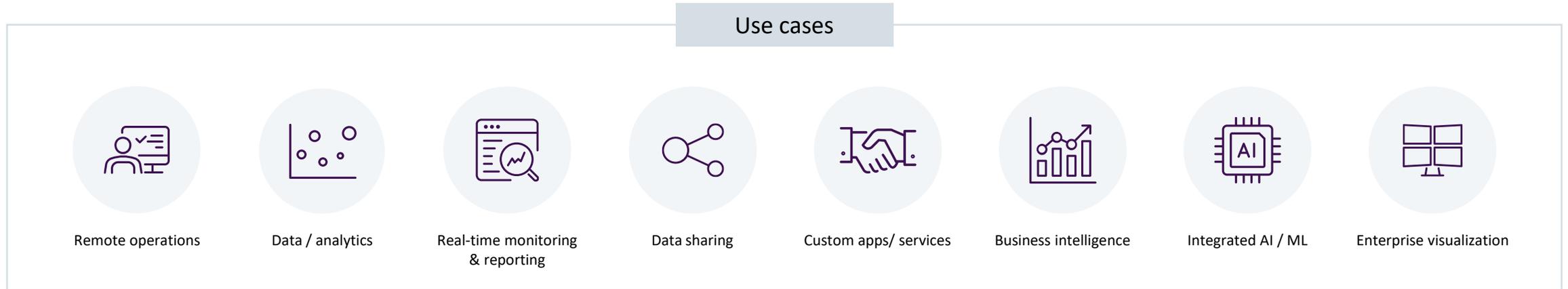
Hybrid data infrastructure

From edge to plant to community



Hybrid data infrastructure

From edge to plant to community



Data

Dependable

Trustworthy

Robust

Diverse
Connectivity

Reliable

Real-time

Consistency

Standardization

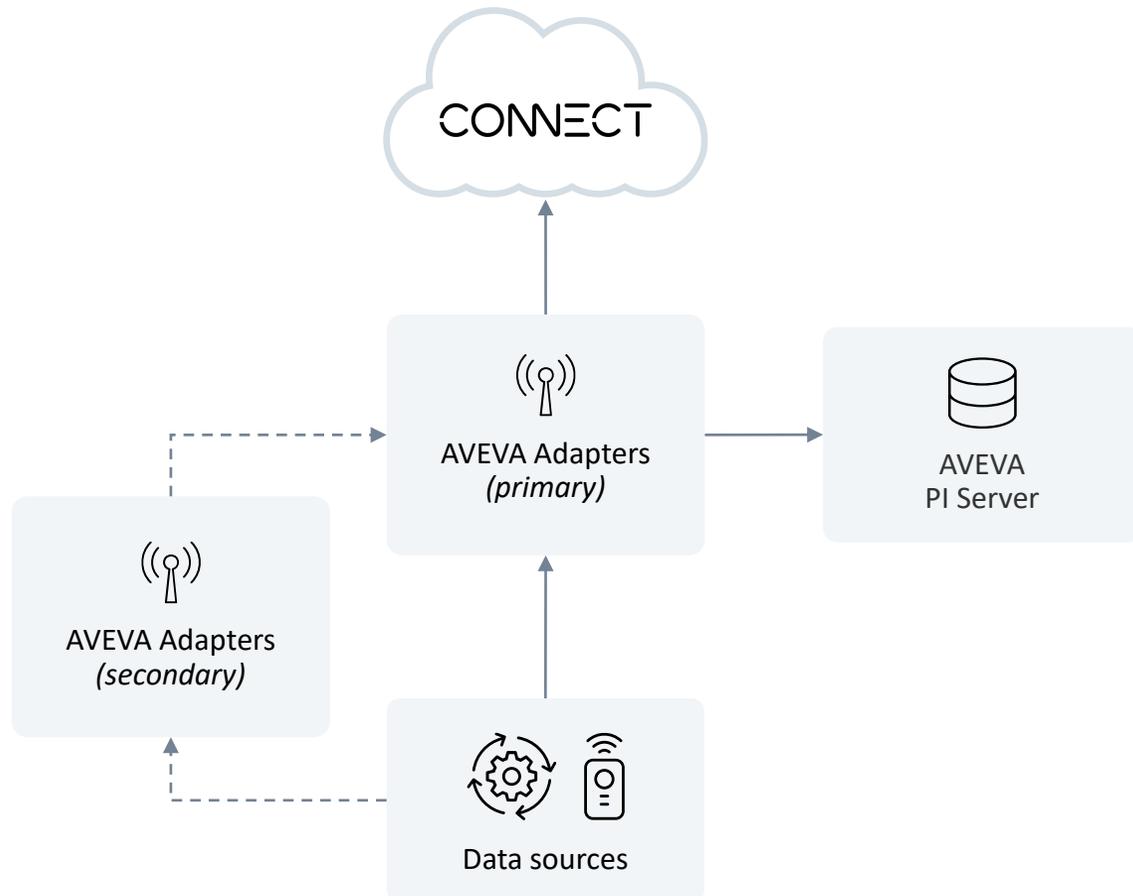
Extending real-time data collection

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

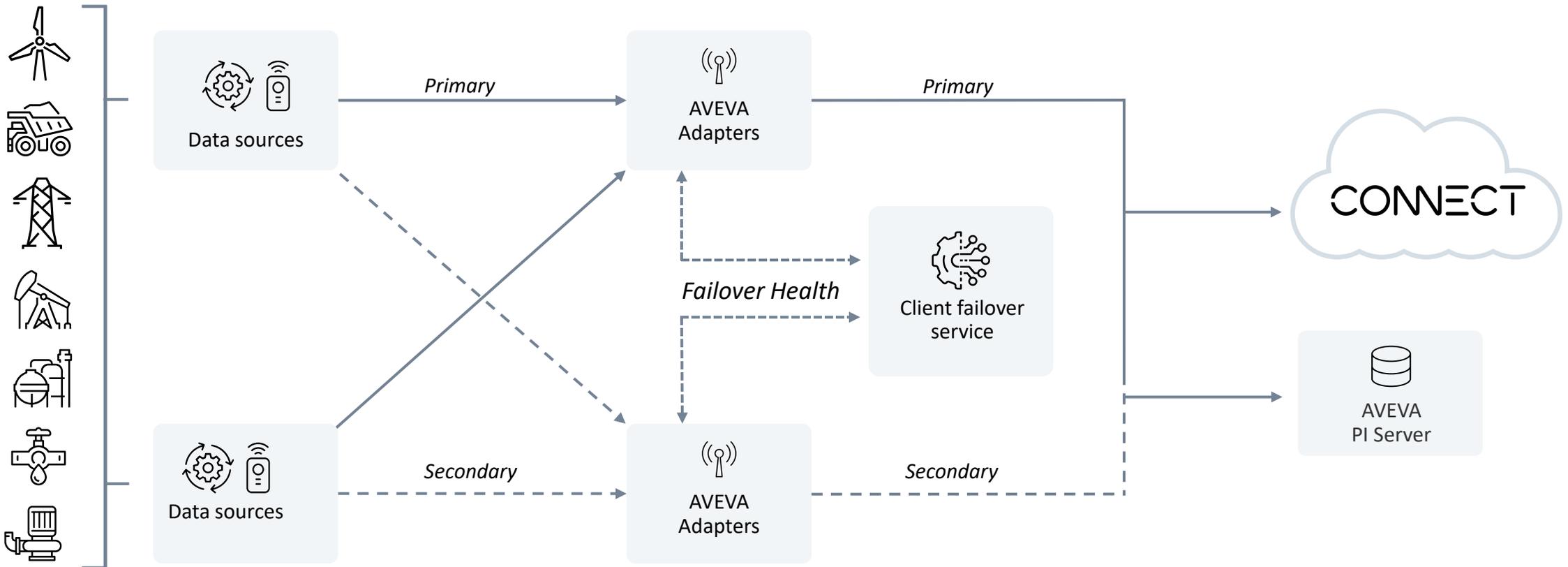
- New edge modules for recently released AVEVA Adapters
- Client-level failover for various protocols
 - Server-level failover for OPC UA and MQTT
- AVEVA Adapter health and diagnostics information available

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

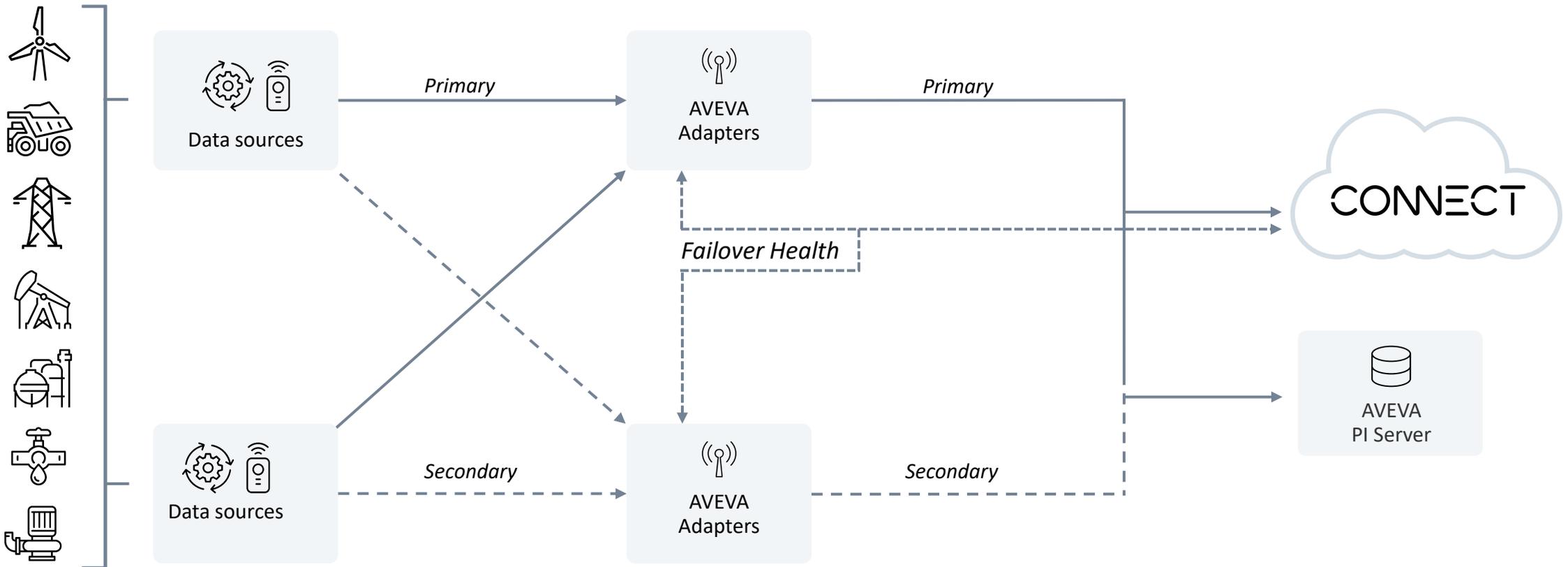
On-prem failover support for all AVEVA Adapters

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 <i>Coming Q2 2025!</i>
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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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 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
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:**

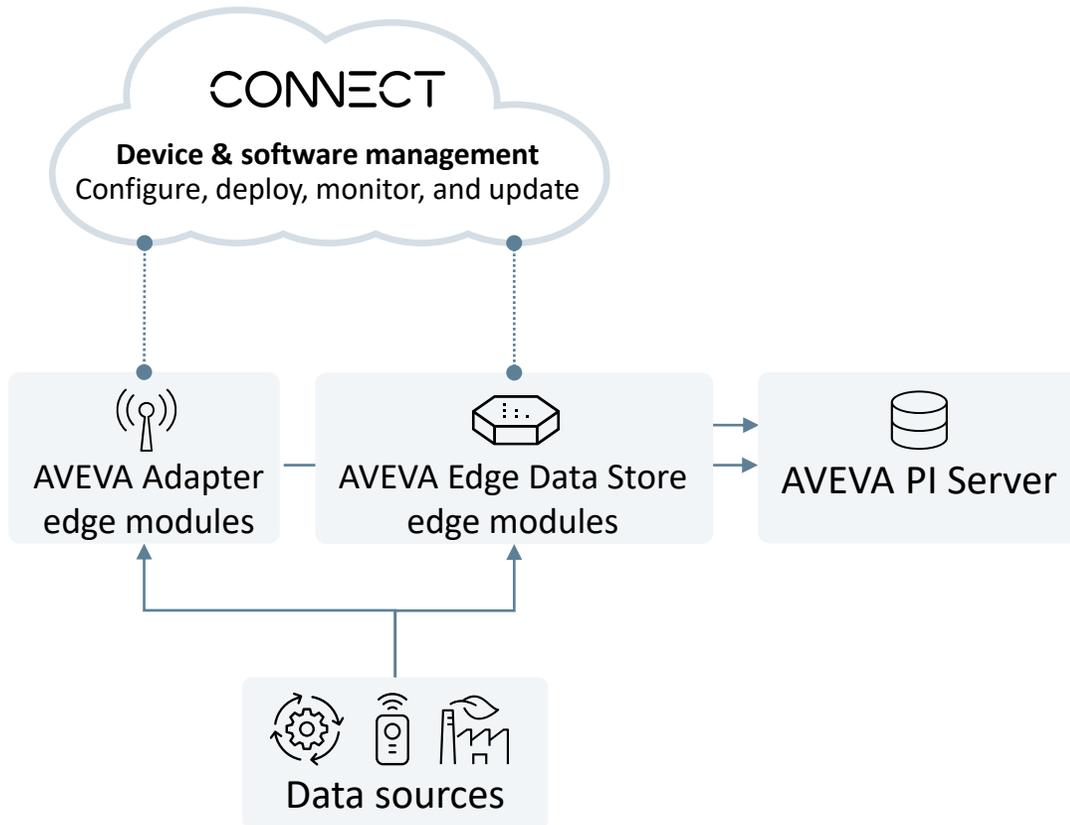
- Edgecmd –cid SDF1 add discoveries –id SDFDiscovery1 –query “IndexField=Timestamp;StreamIDField=City,Site Id”

- **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

Remote operations management

AVEVA Edge Management, edge modules, and CONNECT software management



Features

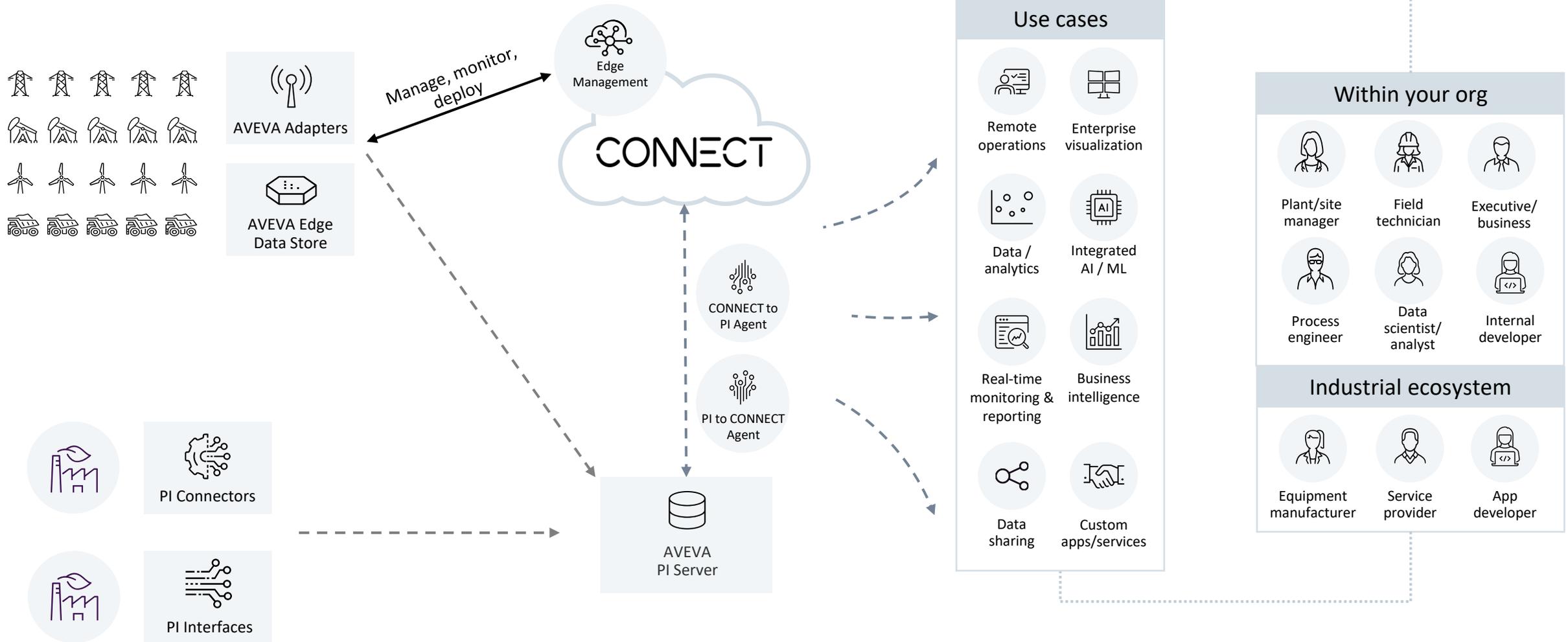
- Configure, deploy, monitor, and update edge modules from CONNECT
 - Edge modules available for AVEVA Adapters and AVEVA Edge Data Store
- AVEVA Edge Management enables a device digital twin, remote software installation, and version management
- CONNECT data services provides software configuration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

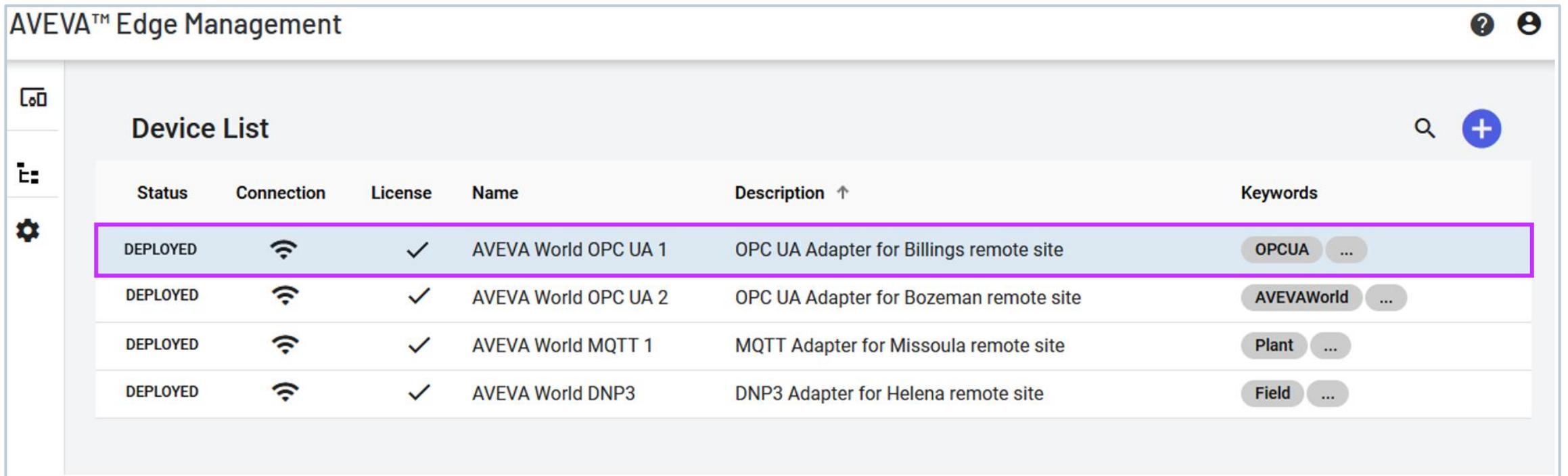
Remote operations monitoring use case

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 Dep

Status

Connection Status	CPU
Connected	7.05 %
Deployment Status	Used Memory
DEPLOYED	485.66 MB of 926.88 MB
License	Used Storage
13 Days Remaining	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 **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**

Status

Connection Status
Connected

Deployment Status
DEPLOYED

License
13 Days Remaining

Log

Modules

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

Monitor software deployments from a central location

The screenshot displays the 'CONNECT Data services' dashboard. On the left is a navigation menu with the following items: 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: 'Announcement: CONNECT to PI Agent 1.0.1523 is released!' dated 'Aug 26, 2024, 3:00:29 PM'. The announcement text states: '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:'. To the right of the announcement 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, a notification bell, a help icon, and a user profile icon. A 'Customize' button is located in the top right corner of the main content area.

Monitor software deployments from a central location

The screenshot displays the AVEVA CONNECT Data services dashboard. The top navigation bar includes the title 'CONNECT Data services', a settings gear icon, 'AVEVA World', a notification bell, a help icon, and a user profile icon. A 'Customize' button is located in the top right corner. The left sidebar contains a navigation menu with the following items: Home, Data Management, Data Collection, Visualization, Analytics, Security, Developer Tools, and Support. The main content area features a 'Latest Service Updates' section with a scrollable list of updates. The first update, 'Edge Data Store & Adapters', is highlighted with a purple box. Below it, 'PI Agents' is also highlighted. The 'Quick Links' section on the right contains six 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.

Monitor software deployments from a central location

CONNECT Data services ▸ Edge Data Store & Adapters

Systems ▾ Search for Systems 🔍

Home
Data Management >
Data Collection >
Visualization >
Analytics >
Security >
Developer Tools >
Support >

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

The screenshot displays the 'CONNECT Data services' interface, specifically the 'Edge Data Store & Adapters' section. The left sidebar contains navigation options: Home, Data Management, Data Collection, Visualization, Analytics, Security, Developer Tools, and Support. The main area shows a list of systems with columns for Device Name, Status, and Type. A status filter is active on the left, showing 'Good' as selected. The detailed view for system 'USAUSL11047' is highlighted with a purple border. It shows the system is an 'AVEVA Adapter for MQTT 1.3.0.103' with a 'Good' status. Key metrics include 71.5 MB memory usage and 177 GB / 510.3 GB storage used (35%). The last contact was 'a minute ago' and it was last modified '4 months ago'. A 'Components' section below shows 'MQTT1' with a 'Good' health status, 1 type count, 21 stream counts, 0.433 event/s IO rate, and 0 event/s error rate.

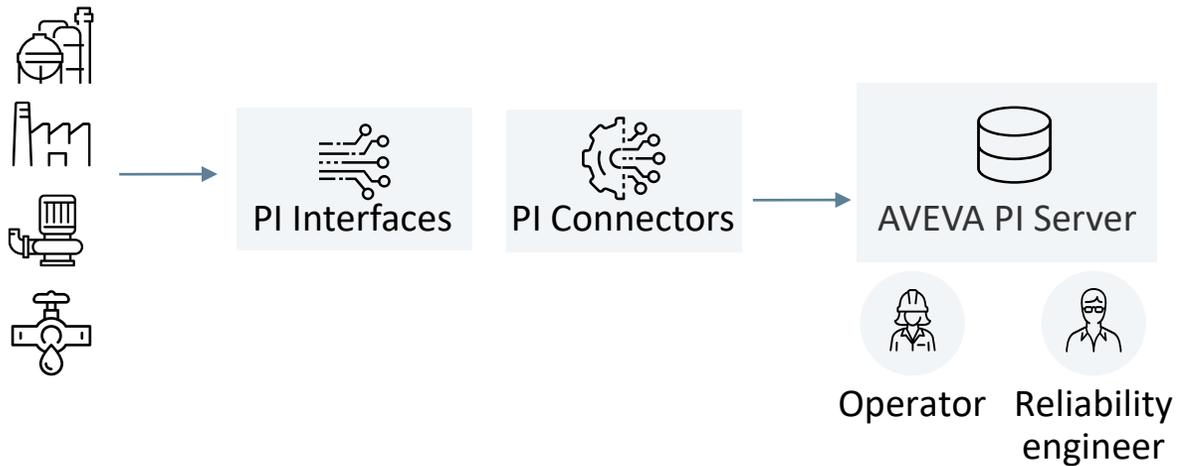
Device Name	Status	Type
AVEVA World OPC UA 1	Good	AVEVA
AVEVA World OPC UA 2	Good	AVEVA
AVEVA World MQTT 1	Good	AVEVA
AVEVA World DNP3	Good	AVEVA

Id	Value
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	

Health	Value
Health	Good
Type Count	1
Stream Count	21
IO Rate	0.433 event/s
Error Rate	0 event/s

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/CVS 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

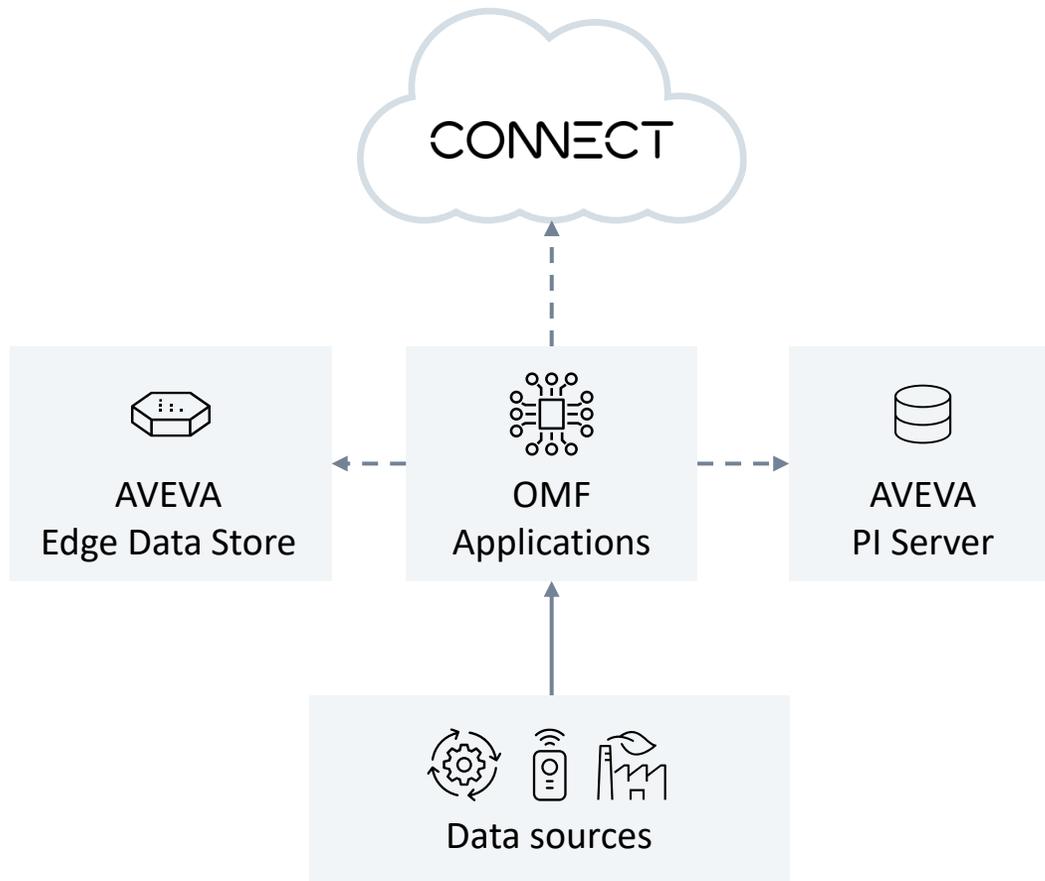
- **Data Transfer to on-prem PI Server**
- **Data Sampling Options**
 - Periodic or event-based
- **Conversions and Extensions**
 - Data type conversion and custom quality checks
- **Security and Authentication**
 - Support for Windows Authentication

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

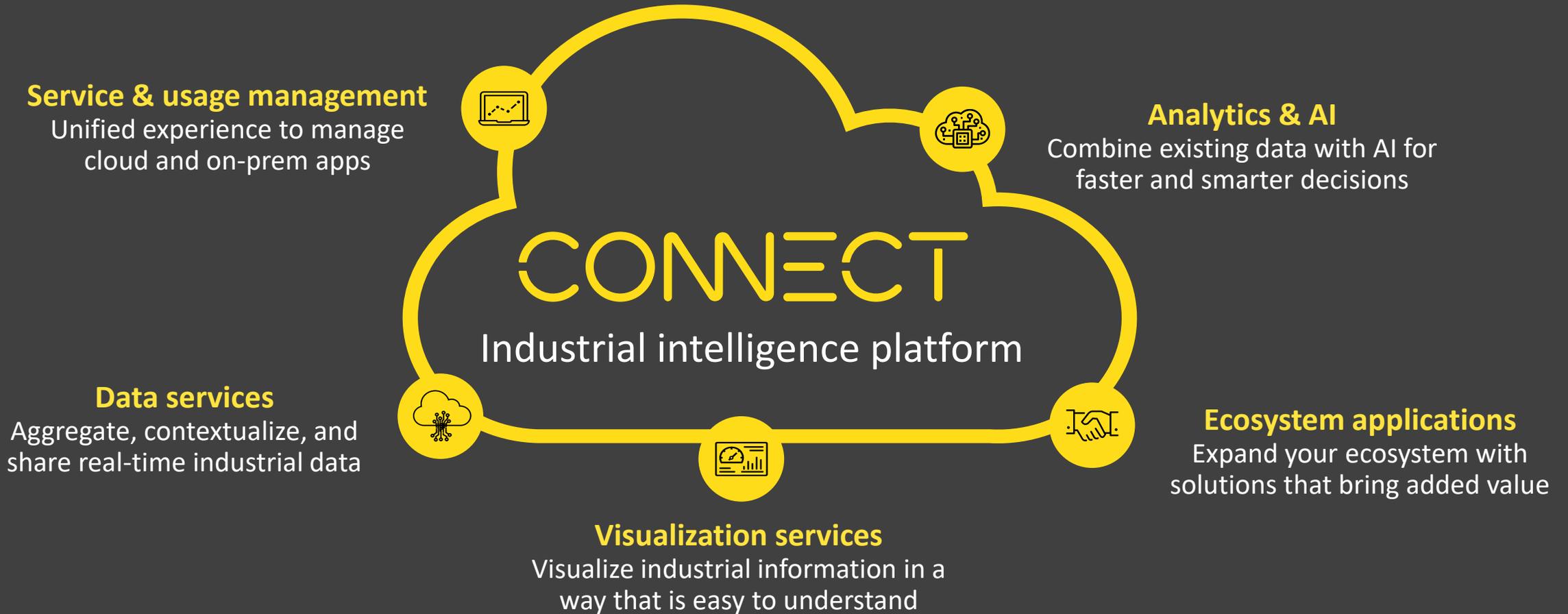
- Inbound and outbound connectivity provides interoperability between:
 - AVEVA Adapters
 - AVEVA PI Server
 - AVEVA Edge Data Store
 - CONNECT data services
- Provides maximum developer flexibility
- Tailor ingress/egress to custom requirements

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

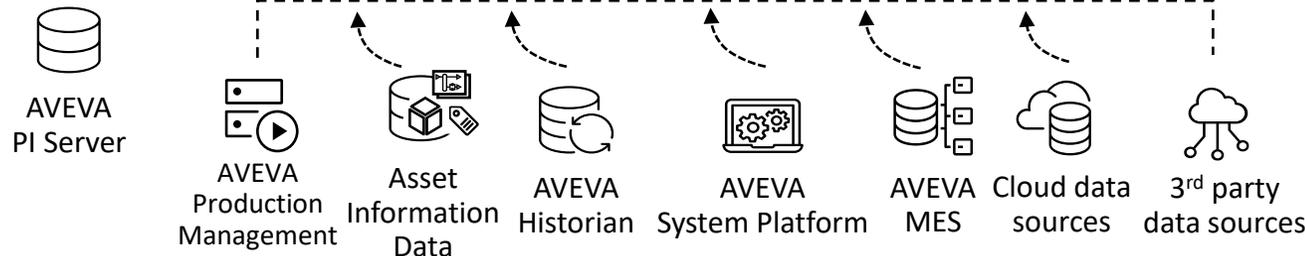


Centralize important data and view at scale from a single portal

Aggregate data from many sources across the enterprise

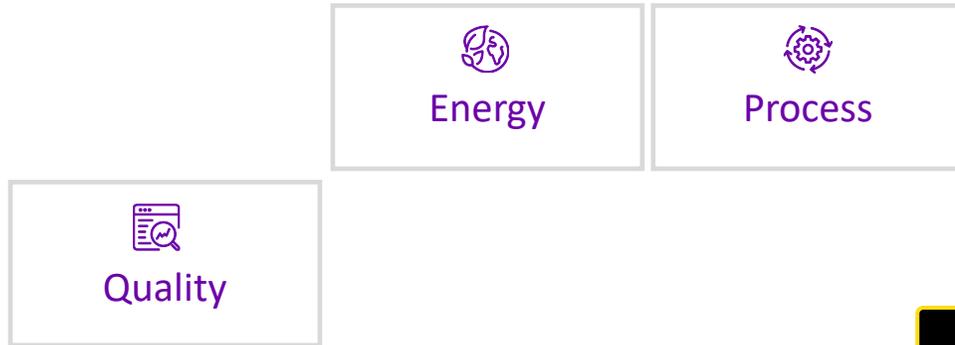
A single pane of glass to visualize all enterprise data

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

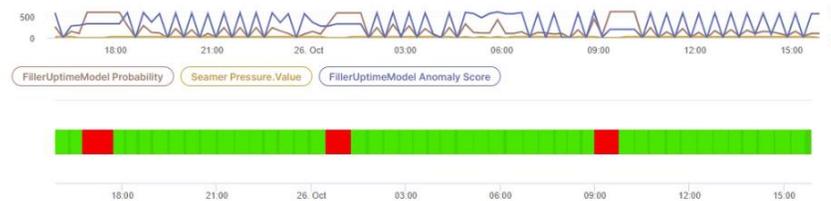


Quality optimization, energy efficiency, and process optimization

AVEVA Advanced Analytics and AVEVA PI Data Infrastructure

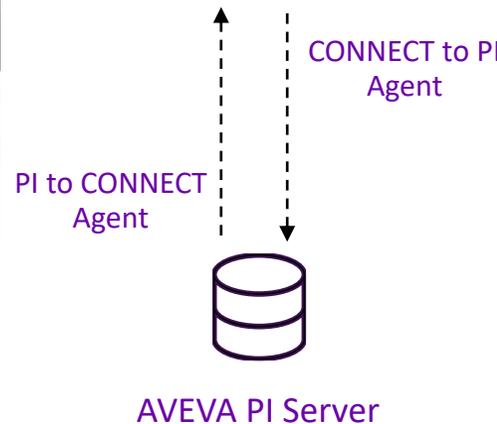


AVEVA Advanced Analytics



Anomaly Score
564.8

Alert Status
Normal



AVEVA™ PI Vision™

DHB_CBML3-ErgoBloc (read-only) (explorer-mode)

intellavi Brewery New York Plant

bottleneck001Information

Current Production **1,110**

Quality Summary Information

Item	Status	Rejects per 1,000 bottles
Stretch Blow Mold	Green	3
Labeller	Red	0.70
Filler	Green	1.15
Capper	Green	2

Maintenance Conditions

Daily Run Hours (%)	100 %
Run Hours Since Maintenance	783.09 h
Last Maintenance Date	8/27/2019 10:34:00 AM

AVEVA™ PI Vision™

DHB_CBML3-ErgoBloc (read-only) (explorer-mode)

intellavi Brewery New York Plant

bottleneck001Information

Current Production **1,235**

Quality Summary Information

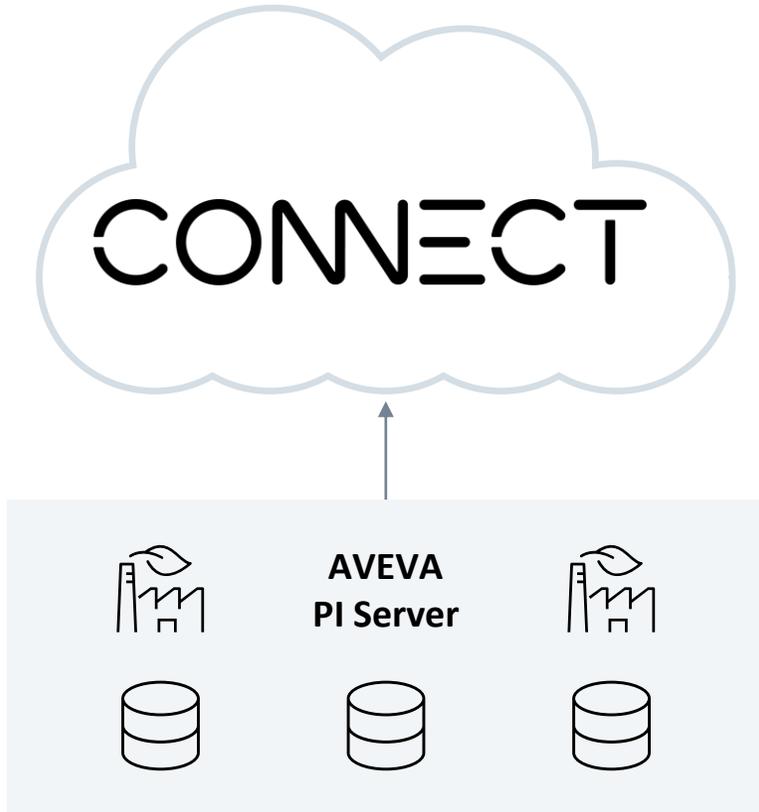
Item	Status	Rejects per 1,000 bottles
Stretch Blow Mold	Green	4
Labeller	Red	0.53
Filler	Green	1.15
Capper	Green	2

Maintenance Conditions

Health Status	Yellow
Filler Anomaly Score	500
Predicted Hours Until Maintenance	238.23 h
Daily Run Hours (%)	57 %
Run Hours Since Maintenance	783.09 h

Centralize and scale your operations data

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



Features

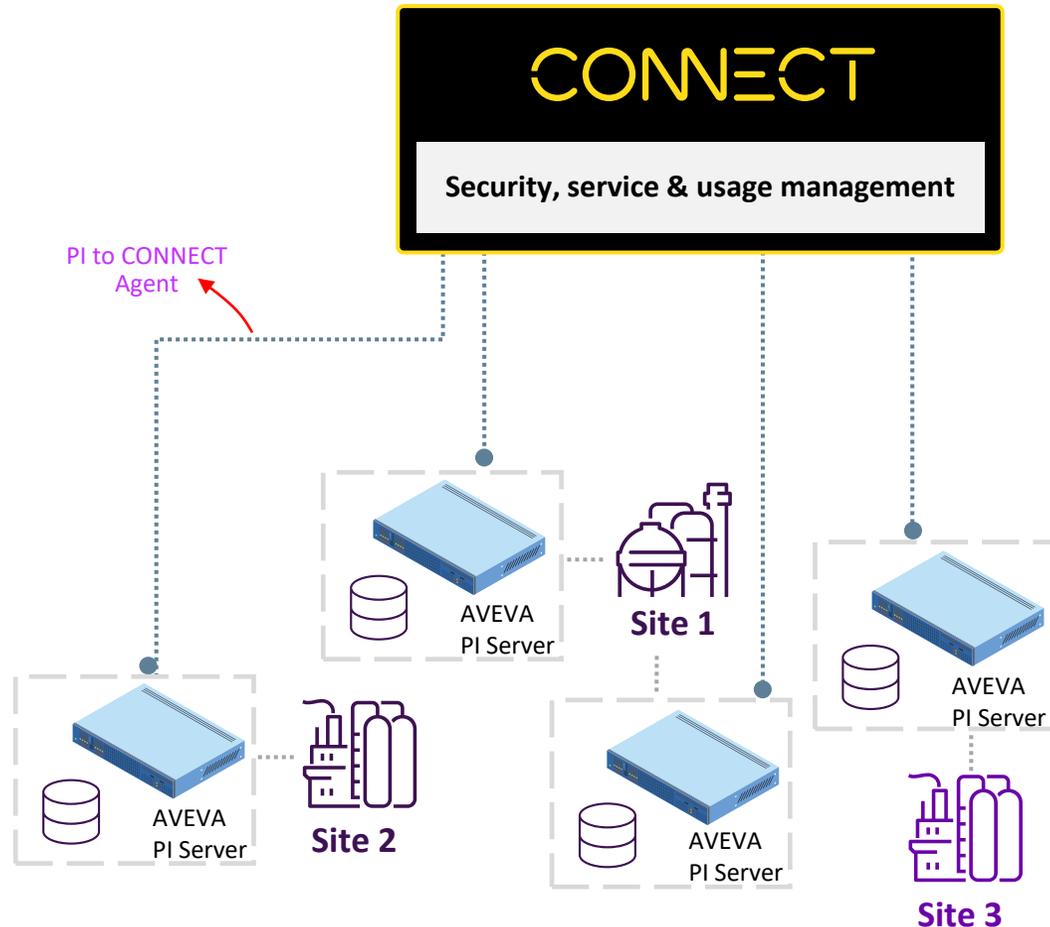
- Send data from AVEVA PI Server to CONNECT
- Automatic synchronization of PI Tags, values, assets and attributes
- Stream real-time data and perform history recovery
- Monitor transfer status with health statistics
- Report usage for Aggregate Tag customers

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

Home | Data Management | **Data Collection** | Visualization | Analytics | Security | Developer Tools | Support

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

Centralize and scale your operations data

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

The screenshot displays the 'CONNECT Data services' dashboard. On the left is a navigation menu with items: Home, Data Management, Data Collection, Visualization, Analytics, Security, Developer Tools, and Support. A 'Customize' button is in the top right. A 'Latest Service Updates' pop-up is centered, highlighting 'PI Agents' with a purple border. The update text reads: 'CONNECT to PI Agent 1.0.1523 is... connectivity software lets you natively manage the 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:'. To the right is a 'Quick Links' section with six blue 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

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CONNECT Data services ▸ PI Agents

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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](#)

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)		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

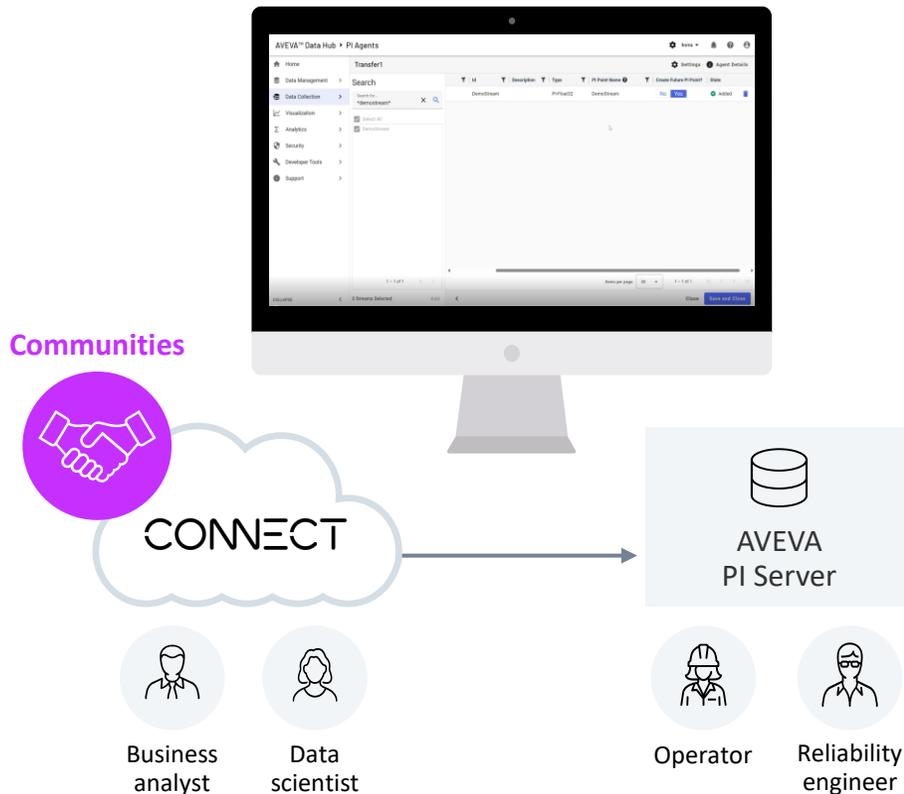
- Advanced analytics capabilities in the cloud bring results and insights back on-premises
- Enhance collaboration between operations experts and data scientists
- Empower operations with advanced analytics insights using familiar tools and existing workflows

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											
Home	PI to CONNECT Agents ▾	Filter Agents...									Download Agent
Data Management >	Description ↑	Status	Version	Data Archive	AF Server	Region	Namespace	Host Name			
Data Collection >	CD-AWC24-PISRV via CD-AWC24-P...	✓ Good	✓ 2.2.1567.0	CD-AWC24-PISRV	CD-AWC24-PISRV	westus	AVEVA World	CD-AWC24-PIWEB...			
Visualization >	CSPI-OIDC Agent	✓ Good	✓ 2.2.1567.0	CSPI-OIDC	CSAF-OIDC	westus	AVEVA World	CSPI-OIDC			
Analytics >	Big Buffalo Wind Farm	✓ Good	✓ 2.2.1567.0	APM-PI-PA	APM-PI-PA	westus	AVEVA World	APM-PI-PA			
Security >											
Developer Tools >											

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 ▾ 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

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 t

Use CONNECT to PI Agent to send KPIs

results to the Data Archive

CONNECT Data services ▸ PI Agents

Home

CONNECT to PI Agents ▾

	Name	Status
Data Management >	CD-AWC24-CTP	Good
Data Collection >	PRGDEMO1	Good
Visualization >	USOAK	Good
Analytics >		
Security >		
Developer Tools >		
Support >		

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

Bring analysis results to the plant floor

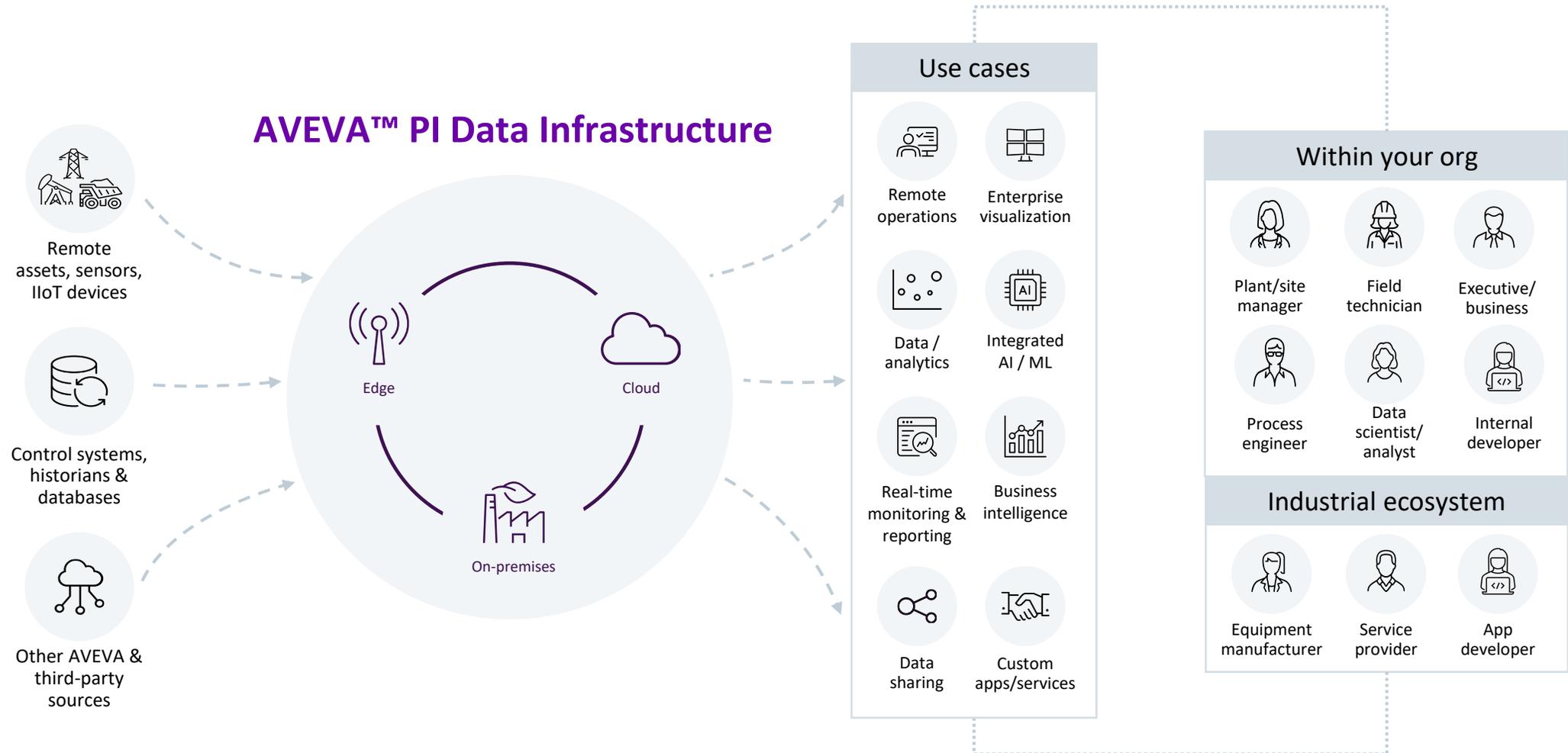
Use CONNECT to PI Agent to send KPIs and advanced analytic results to the Data Archive

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

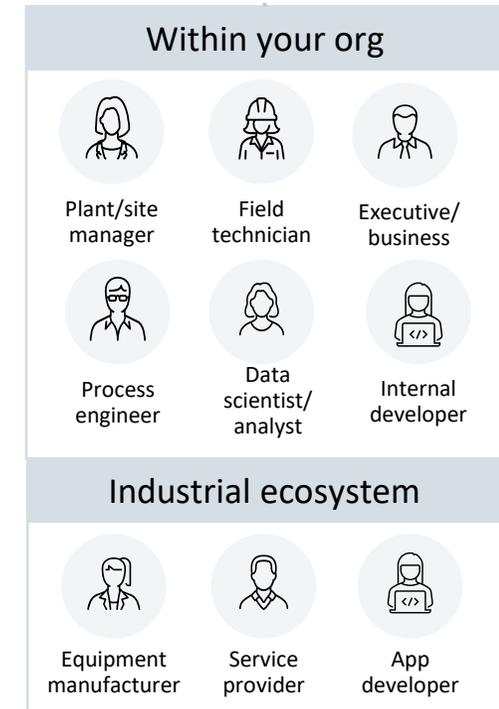
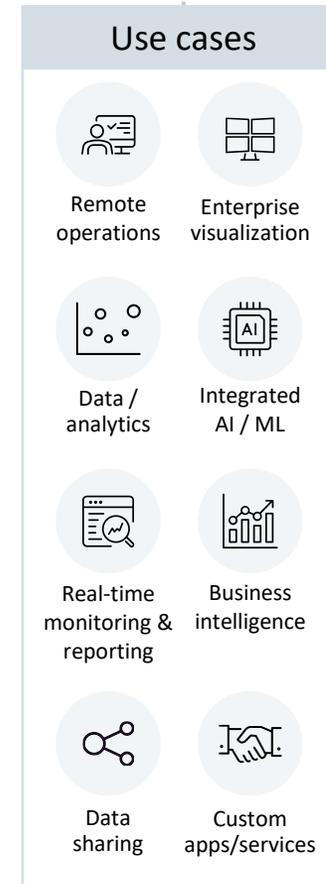
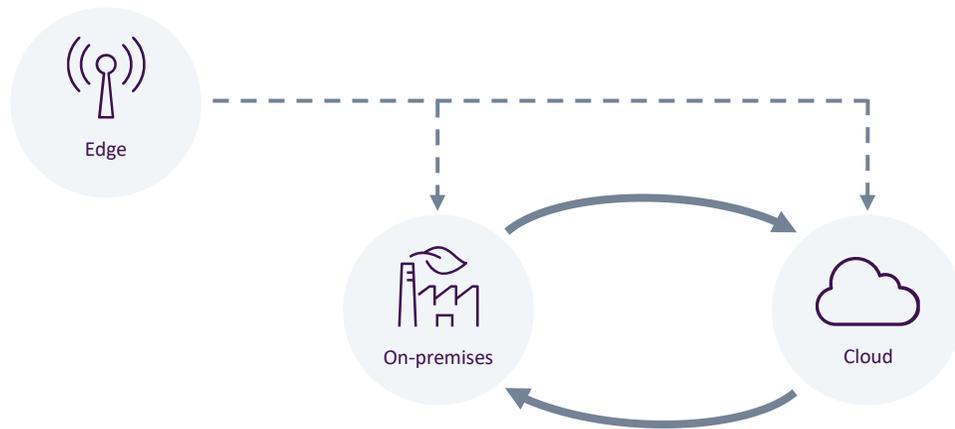
Hybrid data infrastructure

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

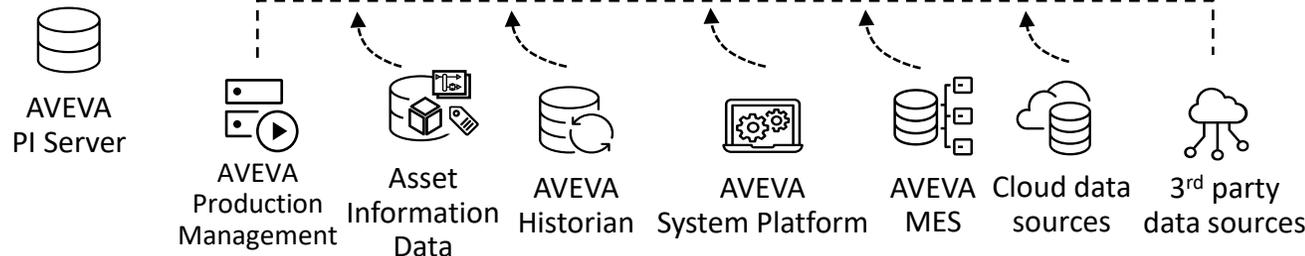


Centralize important data and view at scale from a single portal

Aggregate data from many sources across the enterprise

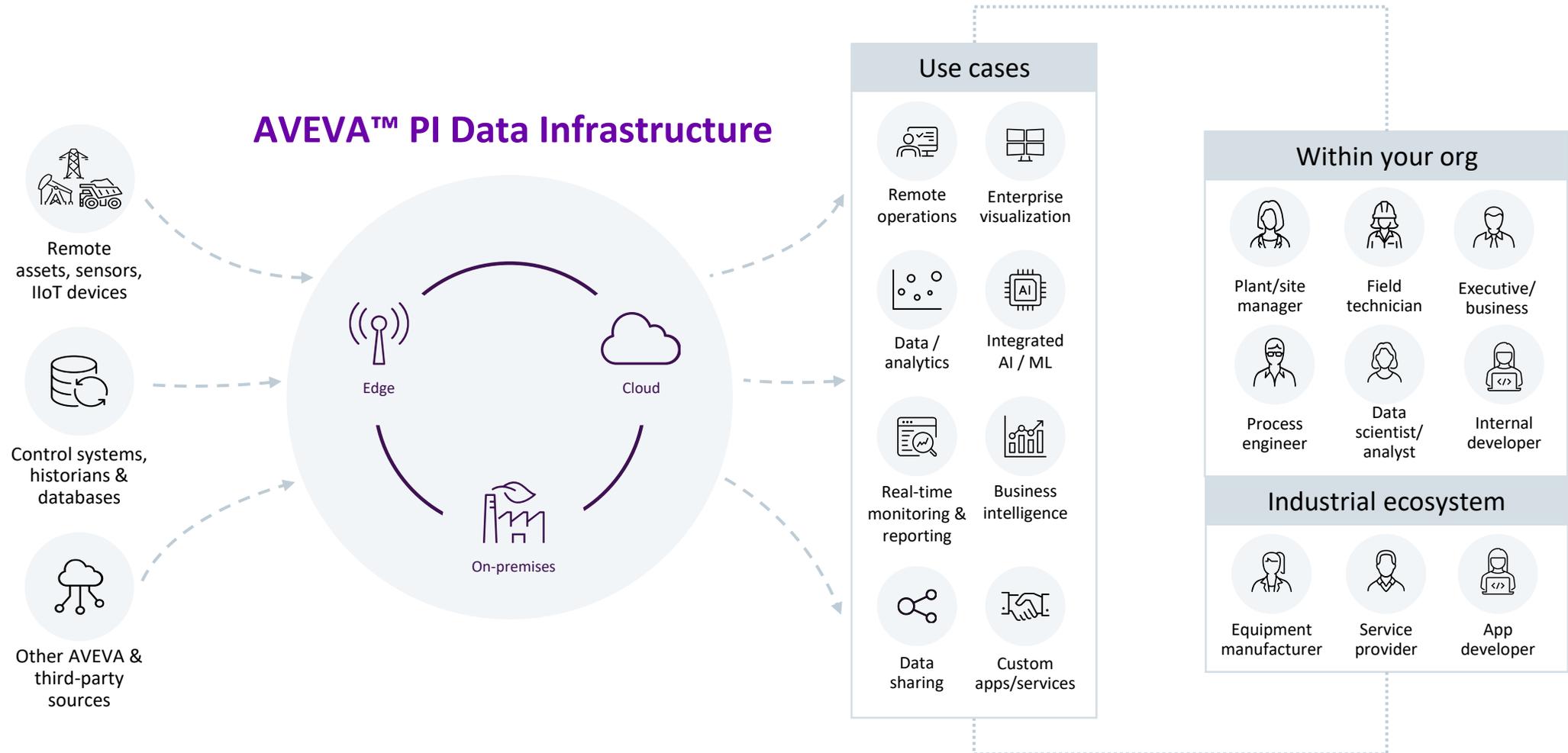
A single pane of glass to visualize all enterprise data

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

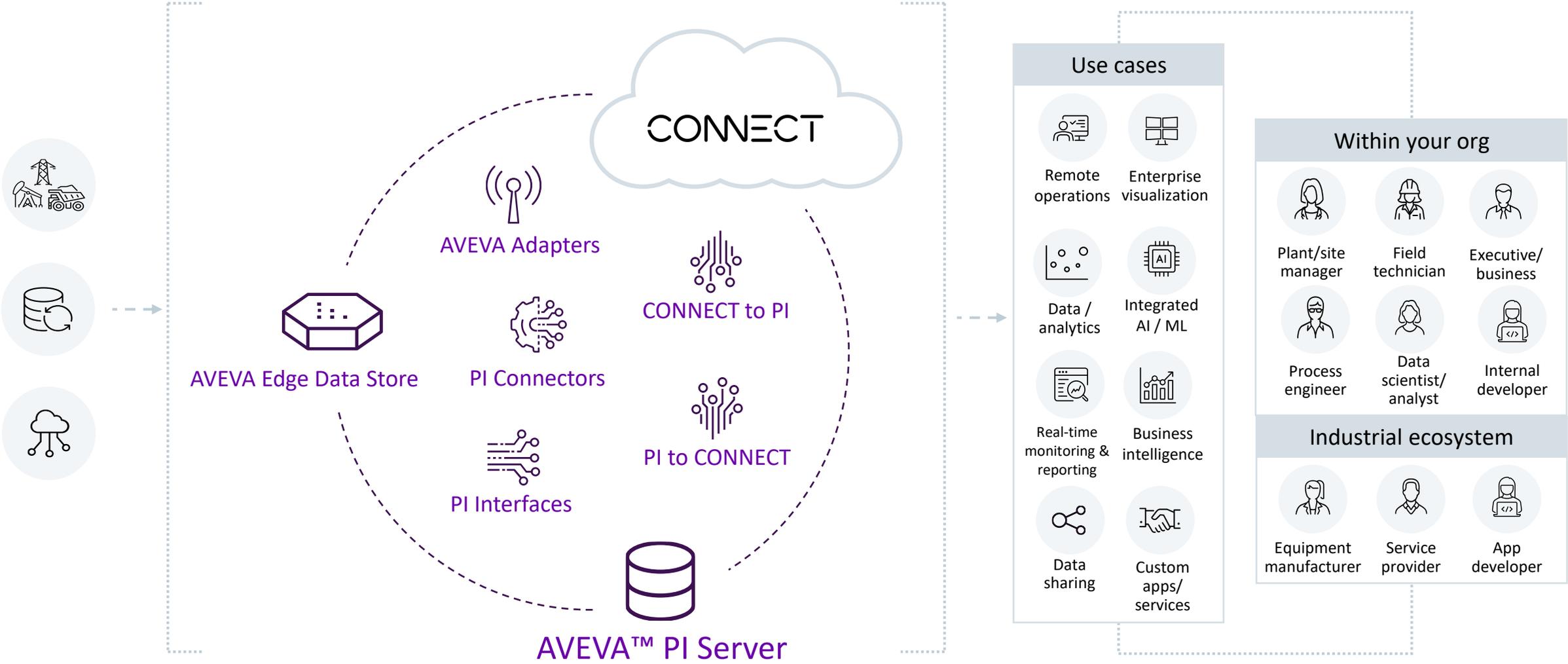


Hybrid data infrastructure

From edge to plant to community



Extending the on-premises value with a hybrid offering



Ellery Murdock

Senior Technical Product Manager

AVEVA

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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!



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- Product release updates
- Event details
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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

AVEVA