

OCTOBER 2025

AVEVA Operations Control Vision

Industrial Intelligence Summit

John Krajewski

AVEVA

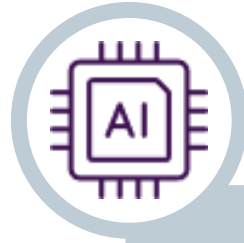
Trends Influencing Industrial Operations

Challenging Traditional Approaches – JUNE 2025



Customer Trends

- Organizational Convergence (IT/OT)
- Software Sprawl
- Resource Challenges
- Informational Silos Breakdown (IT/OT)
- Globalization/Consolidation
- Digital Transformation/Data Priority



Technology Trends

- Hybrid-Cloud
- Containers/Kubernetes
- Managed Services/SaaS
- Generative AI
- Agentic AI/LLM/MCP
- Industry 4.0/4IR/UNS
- MQTT Brokers
- Data Ops
- IIoT



Market Trends

- Inflation/Trade Issues
- Distributed Workforce
- Geo-Political Events
- Digital Natives Become the Majority
- Cyber Security/CRA
- Increasing Rate of Change
- Sustainability
- Data Sovereignty

What activities benefit from access to operational data?

Leveraging operational data beyond monitoring and control





Enabling Digital Transformation

AVEVA Operations Control





CONNECT

Strategic Direction

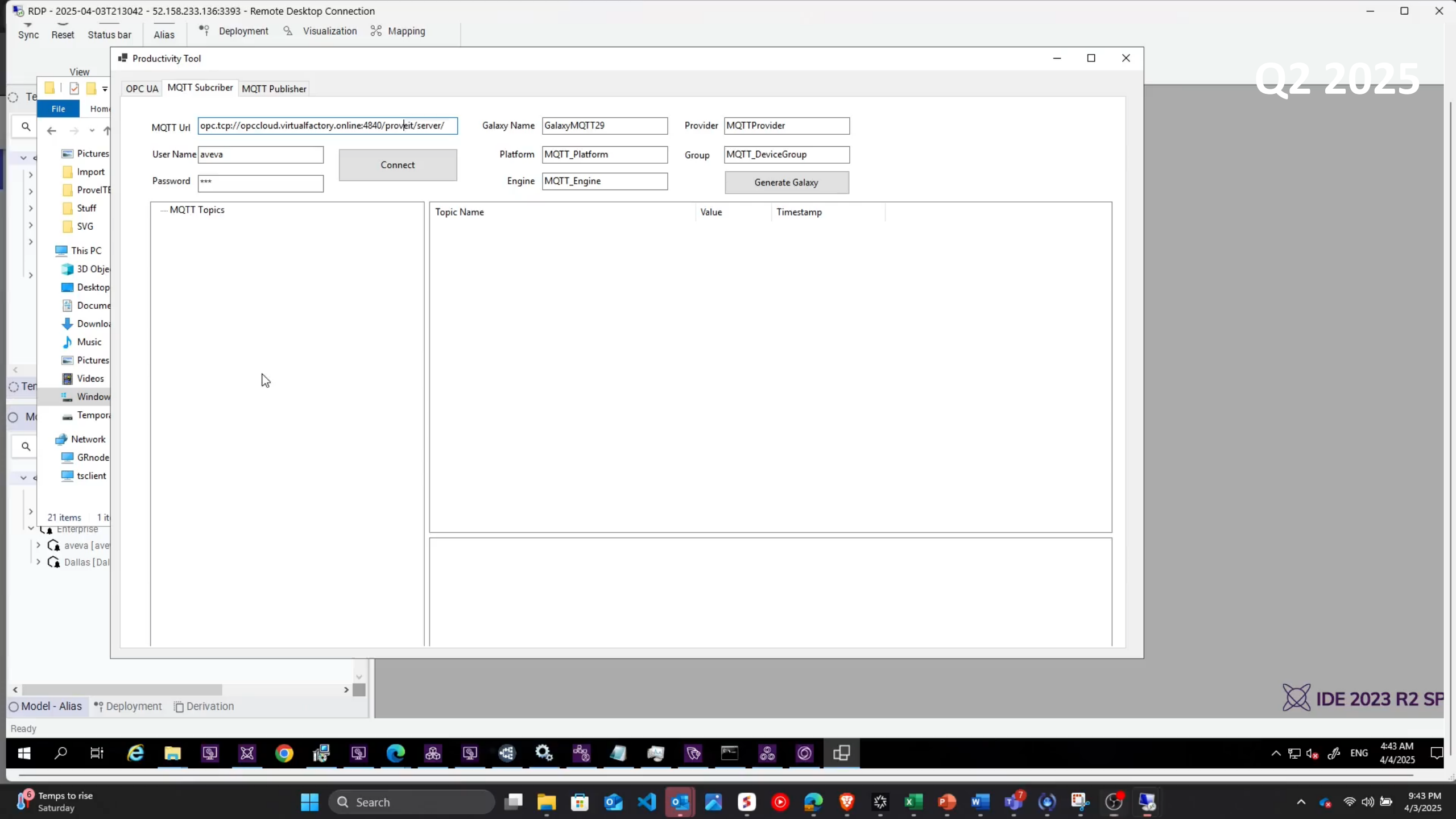
- IT Data Types Emphasis
- OS Agnostic/Portable
- Improved Diagnostics
- Open Standards Focus (OPCUA, MQTT, SQL, & Web Services)

AVEVA Communication Drivers

PLC/RTU/DCS/IIOT/RDB/API

- **Comprehensive:** Connect to virtually any hardware data source through a collection of open standards (OPC/IEC/MQTT/Modbus) as well as proprietary protocols for all major vendors.
- **Edge Driven:** Reduce PLC connectivity configuration efforts by almost 50 percent with the ability to automatically read and structure a PLC program based on current schema.
- **Scalability:** Consolidate scattered architectures by running multiple, completely independent instances of the same driver in a single node.
- **Performance:** Improve your overall throughput and performance per driver and per node.

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Q2 2025

IDE 2023 R2 SP

- View
- File
 - Home
 - Pictures
 - Import
 - ProvelTE
 - Stuff
 - SVG
 - This PC
 - 3D Obj
 - Desktop
 - Docume
 - Downlo
 - Music
 - Pictures
 - Videos
 - Window
 - Tempor
 - Network
 - GRnode
 - tsclient
 - 21 items
 - 1 it
 - Enterprise
 - aveva [ave
 - Dallas [Dal

Productivity Tool

OPC UA MQTT Subscriber MQTT Publisher

MQTT Url

User Name

Password

Galaxy Name

Platform

Engine

Provider

Group

Connect

Generate Galaxy

Topic Name	Value	Timestamp
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COLLECT

Strategic Direction

- Ease of Use
- Edge Driven
- OS Agnostic/Portable
- Server/Service based
- Cloud Connected/Managed

HMI VS SCADA

Where are they similar?

OPC UA Client

Web Clients

Mobile Clients

Historian

MQTT Broker

HMI/SCADA

Visualization & Client Services

Desktop Client

Web Server

Data Server

Alarm Server

Self Service Content

Languages

Industrial Graphics

Extensibility

Business Logic/Scripts/Security

Front End

Back End

Extensibility

Users/Roles

Data Modelling & Connectivity

Model

Structures

Alarming

History

Open Standards (IT & OT)

Proprietary Protocols (OT)

OPC UA

MQTT

SQL

API

PLC

RTU

DCS

IIOT

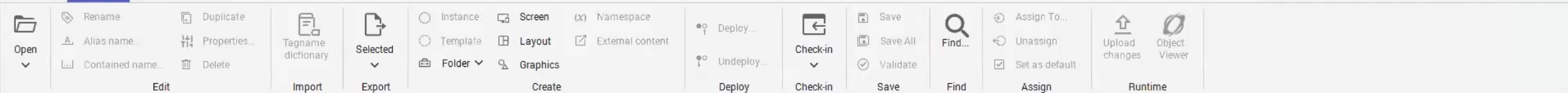
...

Styles
Sstructures
Symbols
Functions

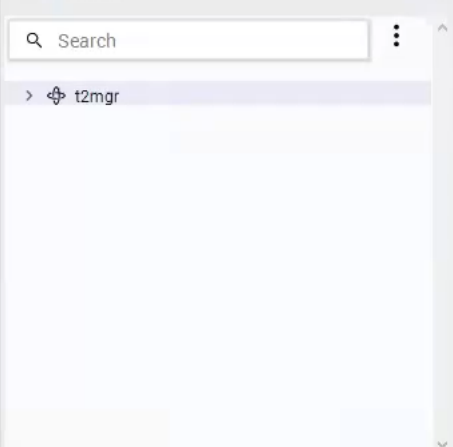
Standards

Galaxy Home View Help

Simplified Layout

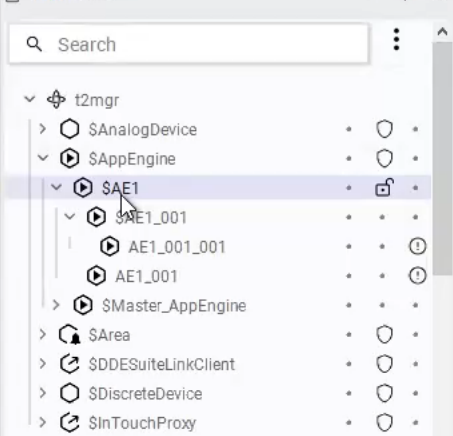


Templates



Templates Visualization

Derivation



Model - Tagname Deployment Derivation

Ready

SAE1

General Redundancy R/W Interrupts Alarms Scheduler History Engine History Attributes Scripts Object Information

Attributes

Name: Attribute001

Description: Enter attribute description

Data type: Integer Array

Writeability: User writeable

Initial value: 10 Eng units:

Available features:

- I/O
- History
- Limit alarms
- ROC alarms
- Deviation alarms
- Bad value alarm
- Statistics
- Log change

ROC alarms

Limit Priority Alarm message

Up 10.0 500 me.Attribute001.Description

Down

Changes per: Sec

Evaluate every: 5000 ms

Content

2 of 261 displayed. 1 selected.

0 of 0 displayed. 0 selected.

Press one of the "+" buttons above to create or link content.



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STORE

Strategic Direction

- Improved CONNECT & PI System Integration
- Improved MQTT Integration
- OS Agnostic/Portable
- AI Integrated

Tag Name	Description	Number	Server	Color	Units	Minimum	Maximum	IO Addr.	Time Offset	Source Tag	Source Server	Value at 1/3	Val
Mixer 21 Agitate	Agitate speed in m/s	2	LOCALHOST	None	None	-10	200	VEU...	0:00:00:00		100	21	
Mixer 21 Level	Level in m/s	3	LOCALHOST	None	None	-10	140	VEU...	0:00:00:00		140	3	
Mixer 21 Temp	Temperature in m/s	4	LOCALHOST	None	None	20	80	VEU...	0:00:00:00		55	36	

AVEVA Historian

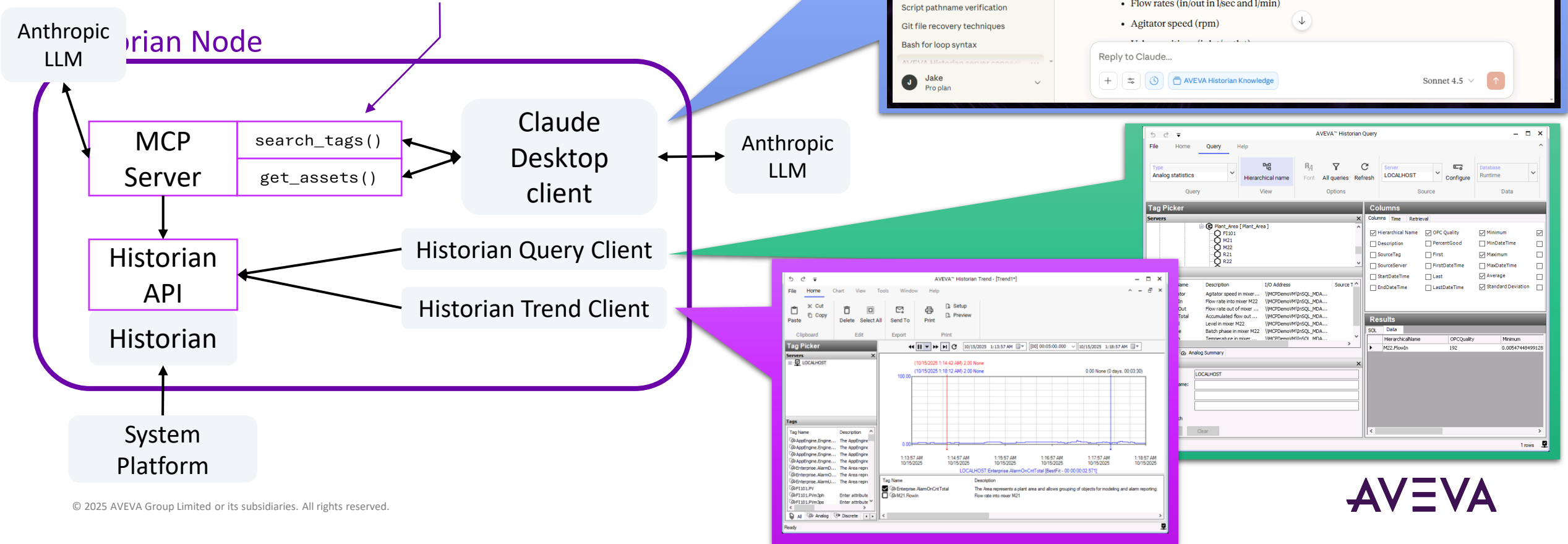
Process database integrated with operations control

- **Process database for operations control** - Tailored to the demanding needs of industrial processes across all industries, AVEVA Historian is the perfect companion to AVEVA's world-leading operations control solutions for HMI and SCADA.
- **Scalability and Performance**- AVEVA Historian simplifies the most demanding data reporting and analysis requirements.
- **Complete Record of Operational Data** - AVEVA Historian handles time-series data, as well as alarm and event data.
- **Uncompromising data integrity** - AVEVA Historian manages low bandwidth data communications, late-coming information, and even data from systems with mismatched system clocks.

Introduction to MCP

PoC currently running in Integration Studio

MCP exposes “tools” that accept parameters described in a JSON package retrieved by the LLM. It describes the parameters in plain text for the model to interpret and reason about how to use them. There are also hints on how the results from one tool relate to parameters of others



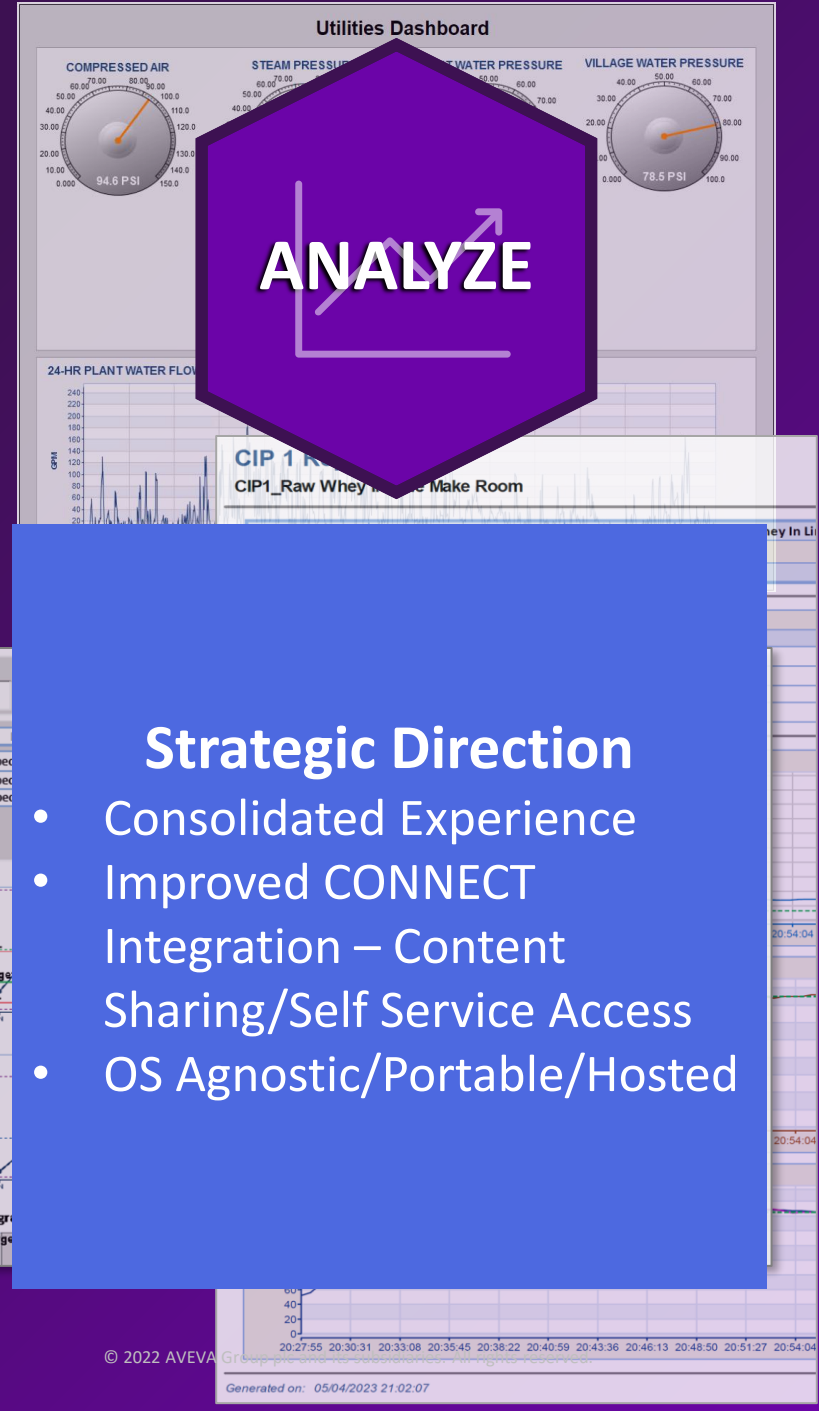


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ANALYZE

Strategic Direction

- Consolidated Experience
- Improved CONNECT Integration – Content Sharing/Self Service Access
- OS Agnostic/Portable/Hosted

AVEVA Historian Clients & Reports for Operations

Complete set of tools for rich visualization of operational data

- **Complete coverage** – Trend analysis, query builder, real time dashboarding, Excel add-in and detailed reports are all included capabilities.
- **Contextual operational insights** - Better insights into your business – know what's happening, what's happened and what is likely to happen. Get immediate access to relevant data for more informed decisions. Expose hidden opportunities for reducing operational costs and improving asset performance.
- **Report With Ease** - Significantly reduce report development time, simplify report modification, and empower transformation of raw data into attractive, information-filled reports.

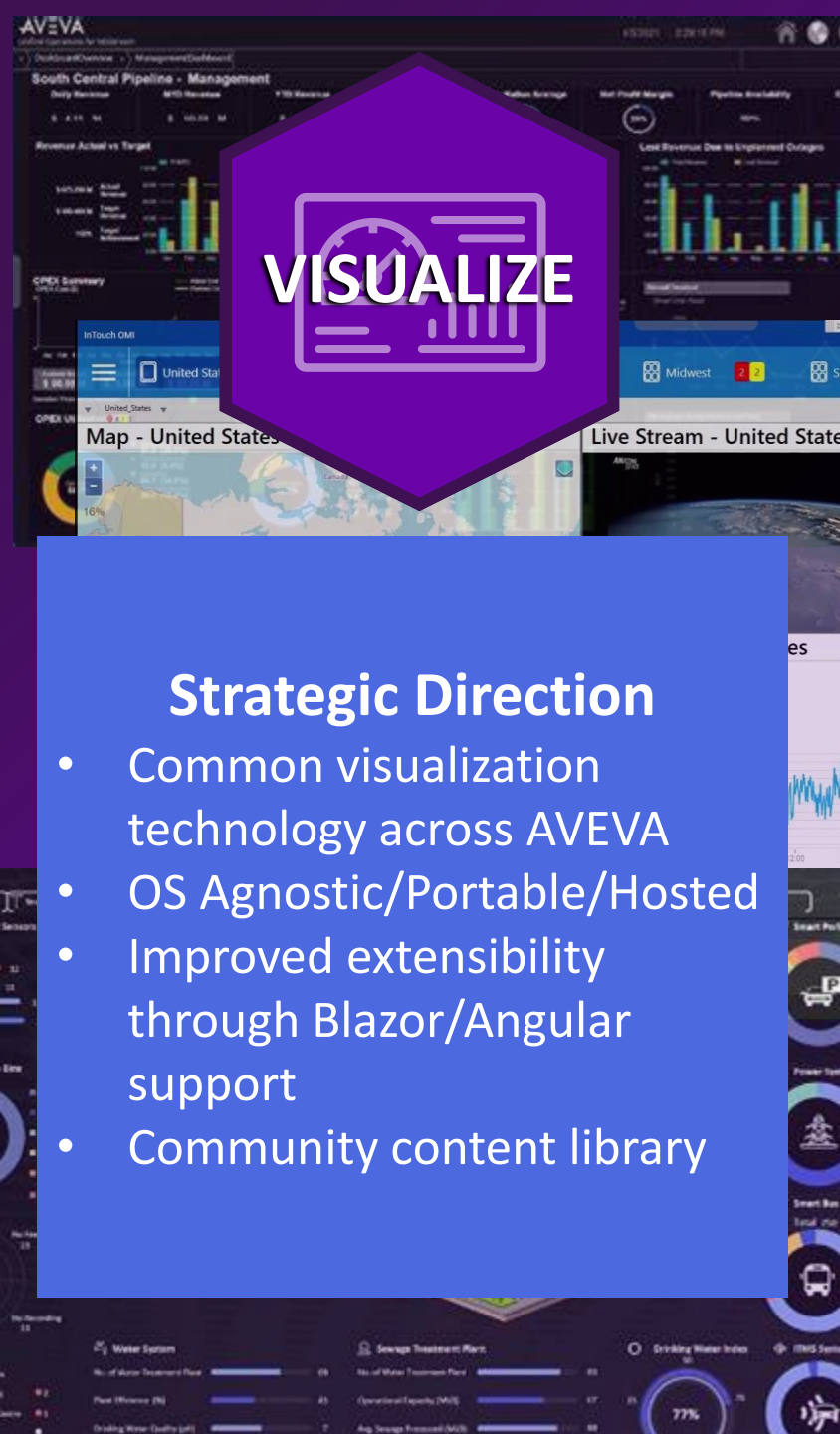


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VISUALIZE

Strategic Direction

- Common visualization technology across AVEVA
- OS Agnostic/Portable/Hosted
- Improved extensibility through Blazor/Angular support
- Community content library

Operations Management Interface

Common process visualization technology across AVEVA





AVEVA OMI
Applicati...

Q Search



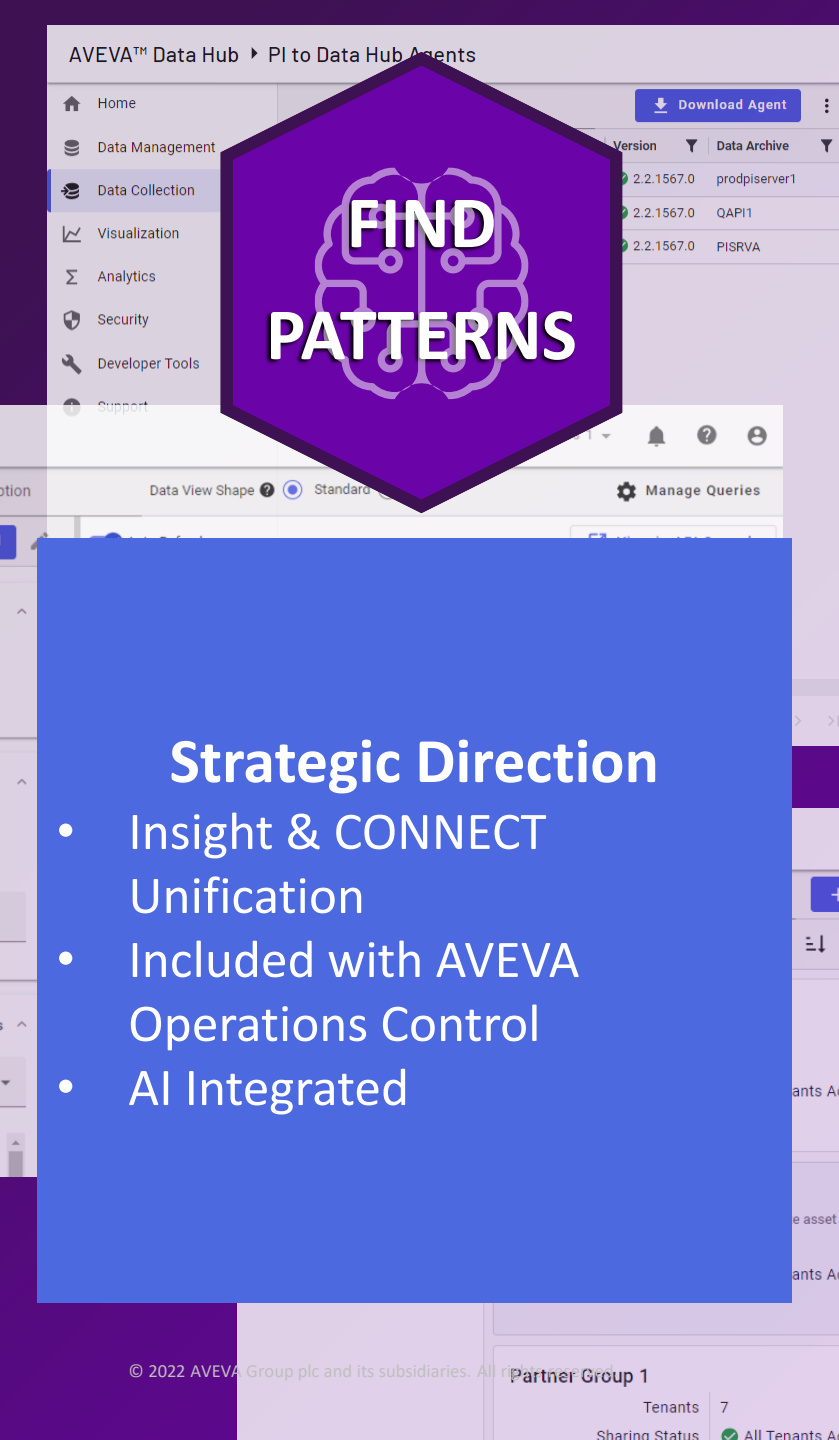


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CONNECT Data Services

Streamlined, real-time data aggregation and sharing in the cloud

- **Open, agnostic data ingress** – Ingest data from any source with ease, including native integrations with AVEVA™ PI System™, AVEVA™ Historian, and AVEVA Edge Data Store.
- **Storage of sequential data and context** – Securely store real-time industrial data and add relevant context. Ingress sequential data, including time-series, in a database independent and separate from control systems.
- **Customizable data views** – Customize views of your data and enable visualizations to reflect directly into applications like PowerBI, Grafana, and AI/ML tools.
- **Connected community** – Share data securely to external sources and across multiple tenants and maintain granular control over the data shared with each business partner.

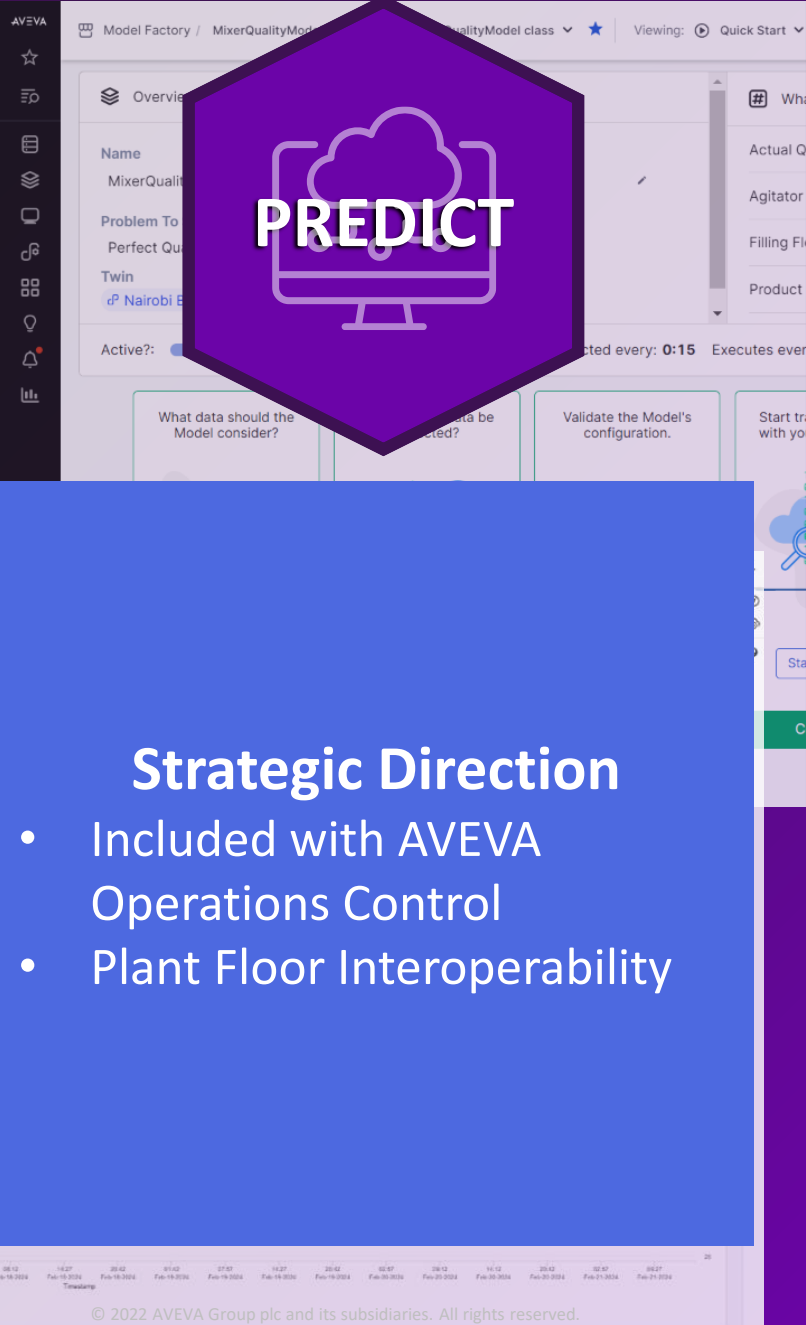


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PREDICT

Strategic Direction

- Included with AVEVA Operations Control
- Plant Floor Interoperability

AVEVA Advanced Analytics

Transform your data into actionable insights

- **Predict** - Predict process outcomes and asset behavior using cloud-based AI and machine learning (ML) at scale.
- **Analyze** - Create AI-driven models, run analytics, and visualize results, all in a no-code environment.
- **Prescribe** - Get system-generated prescriptive recommendations to make the right decisions to improve sustainability, throughput, and quality. Receive real-time alerts in the event of process or quality deviations to course-correct during production processes.



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Strategic Direction

- Included with AVEVA Operations Control
- Plant Floor Application Publishing

CONNECT Visualization Services

Cloud based visualization using self-service and pre-defined content

- **Self-service dashboards** - User-created dashboarding experience built from an included content library allowing for flexibility to address unique data visualization needs and root cause investigation.
- **Pre-defined dashboards** - Engineered views providing a more structured and interactive visualization experience focused on tracking an understood perspective with a consistent visualization.
- **Organize and share** - Build and organize lists of assets and previously associated content for easy sharing with other users.
- **Industrial AI Assistant** - Question-and-answer tool to quickly find and summarize information by asking natural language queries through a chat interface.

Get started below

Use our powerful search to quickly view asset information, KPIs, and sophisticated analysis.

 Search for assets, data or saved content

ASSETS

5,030



TAGS

27,942



CONTENT

10



✓ Applications

Content

Executive



Modified: 2/18/2025 12:11 ...
ruben.rueda@aveva.com

Executive



Modified: 2/25/2025 3:56 PM
pierre.hery@aveva.com

Manager



Modified: 2/18/2025 12:09 ...
ruben.rueda@aveva.com

Operator



Modified: 2/18/2025 12:14 ...
ruben.rueda@aveva.com



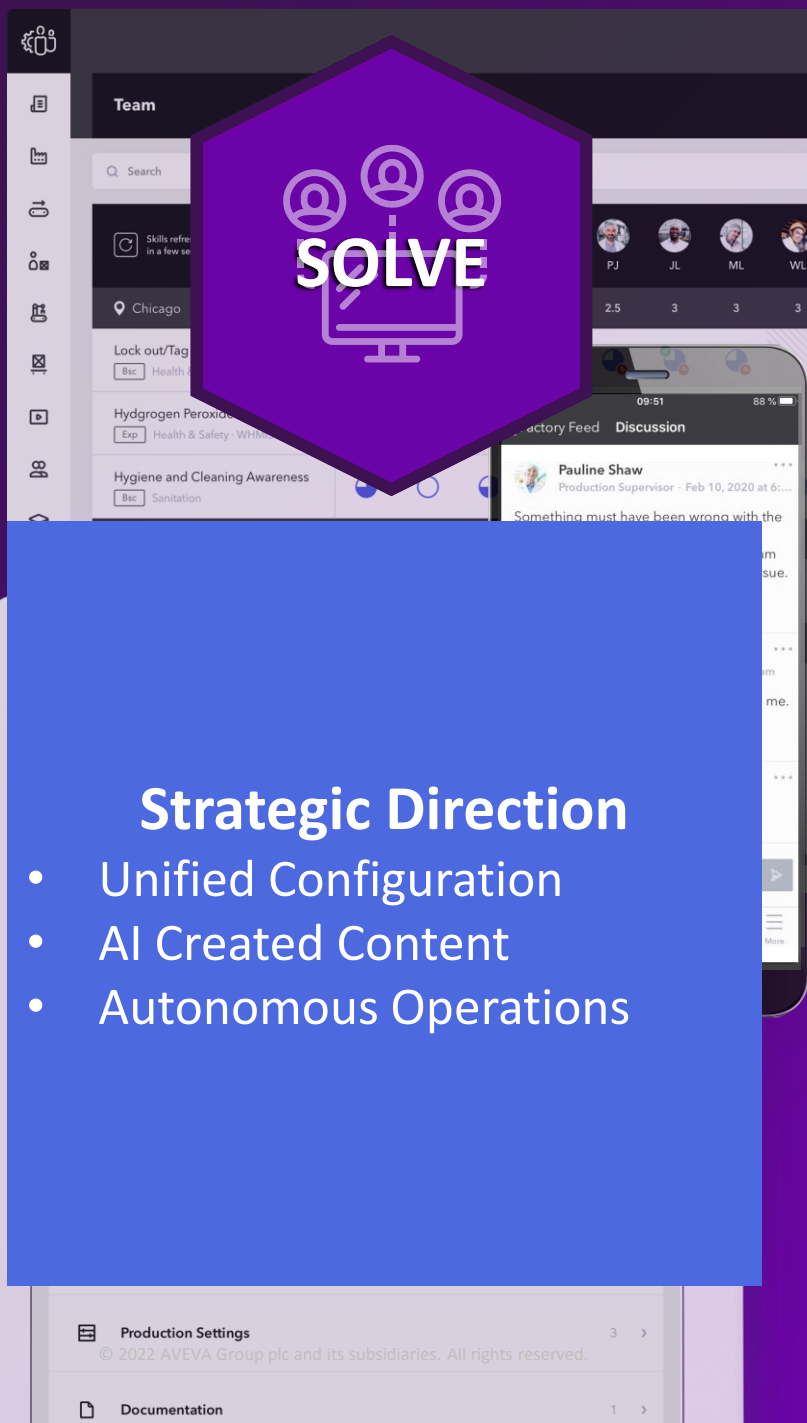


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SOLVE

Strategic Direction

- Unified Configuration
- AI Created Content
- Autonomous Operations

AVEVA Teamwork

Collaborative Industrial Operations

- **Digital knowledge** - Scan QR codes to quickly access a standardized library of instructions, videos and troubleshooting content.
- **Skills management** - Deliver and track training for new hires, upskilling and certifications with a review pane to view pending and completed training.
- **Collaboration** - Connect with workers across shifts and facilities to solve problems. Share insights in a logbook and continuously grow the archive of knowledge.
- **Issues management** - Capture, track and resolve problems through call for help escalation and collaboration with subject matter experts.

CONNECT

AVEVA Development Studio

https://devstudio.qa-devstudio.capdev-connect.aveva.com/projectpublish/2306dd62-ffbd-4902-89a7-b9e52f4db026/2/ca45c51b-3544-4e83-8e8f-4face43fbb39/a344ddac-b53b-4c7e-b099-3ff7ac652f83

Update

AVEVA™ Development Studio

Home

Entitlements

Project backups

Internal

DairyGood (System Platform) / Edit model and publish version 2

Discard changes

Publish to Teamwork

Ready to edit. All changes you make are automatically saved to the cloud as you work.

To map your assets, select and then drag and drop them to the appropriate Teamwork designation on the right.

Search assets

Source assets (64)

Name	Status
TopMilk	
> Bottling	
IngredientStorage	
> MilkSupply	
> Mixing	
> Production	

Teamwork preview

Name	Status
> Flavoured Milk	

COLLAPSE

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23°C Sunny

Search

10:37 AM 26/09/2025

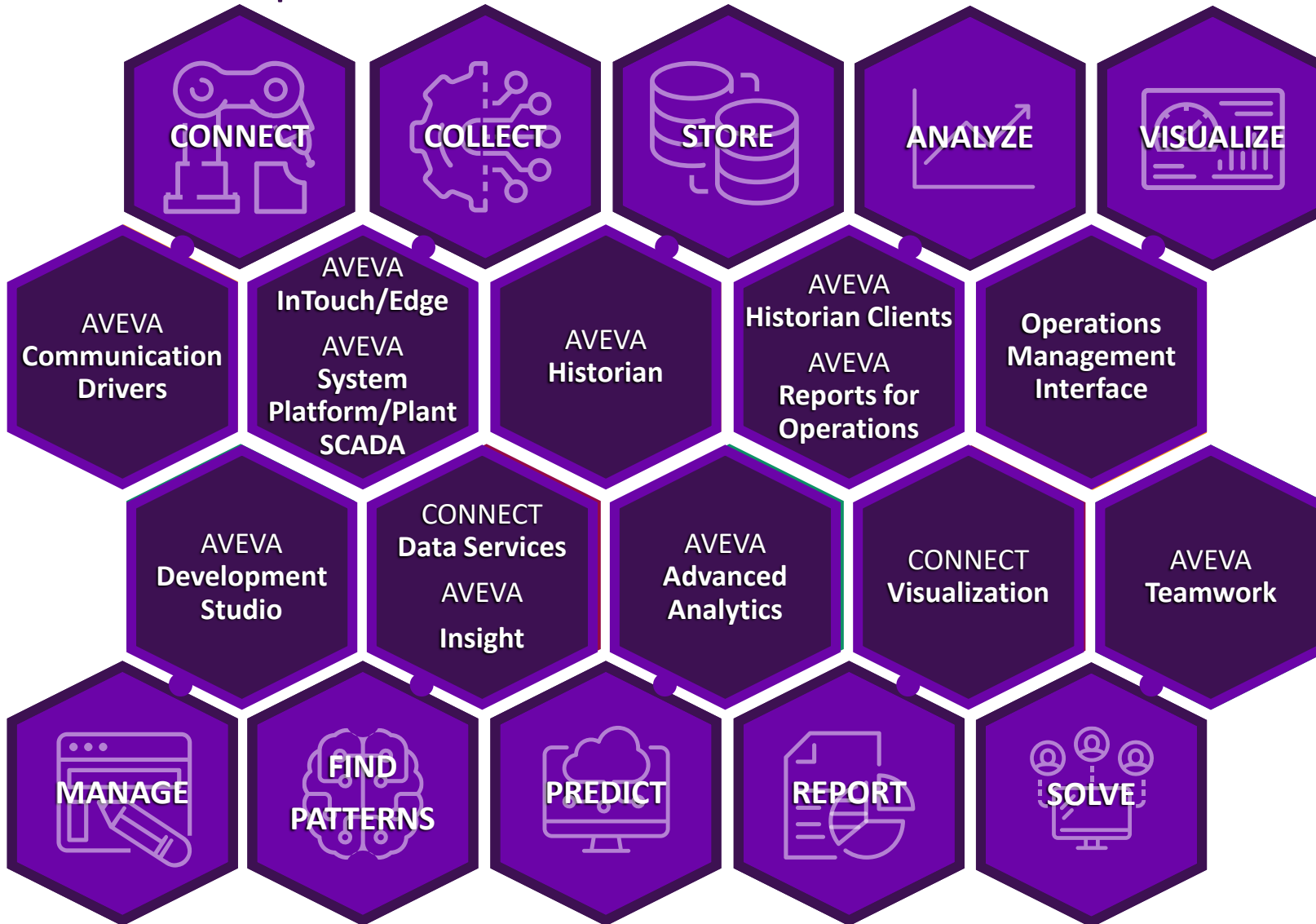
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Empowering Digital Transformation with the power to choose the configuration, architecture and deployment options that best meet your objectives

THANK YOU!