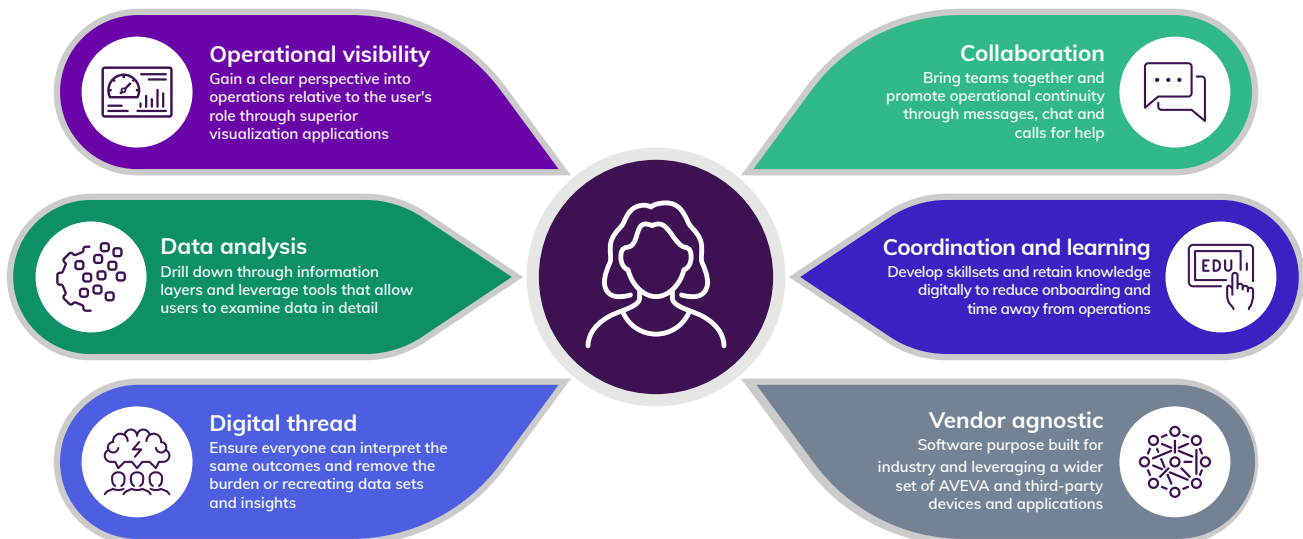# AVEVA™ Operations Control

Aligning teams toward operations excellence

Empower your teams with the secure hybrid-cloud industrial software they need. AVEVA Operations Control is the only truly unlimited and complete operations software portfolio that offers zero tag, IO, and server limitations. The software enables you to scale work processes and knowledge across diverse teams and sites while reducing human error to achieve operational excellence.

Maximize operations control visibility, teamwork and decision-making with complete architectural flexibility from process to plan to enterprise. Improve operational awareness with sustainable processes while being safe, efficient, and cost-effective. Give users seamless access to capabilities that go beyond HMI and SCADA and include collaboration, manufacturing execution, analytics, and rich cloud-based tools that unlock greater insight and reveal opportunities for improvement.

Operational visibility
Gain a clear perspective into operations relative to the user's role through superior visualization applications

Collaboration
Bring teams together and promote operational continuity through messages, chat and calls for help

Data analysis
Drill down through information layers and leverage tools that allow users to examine data in detail

Coordination and learning
Develop skillsets and retain knowledge digitally to reduce onboarding and time away from operations

Digital thread
Ensure everyone can interpret the same outcomes and remove the burden or recreating data sets and insights

Vendor agnostic
Software purpose built for industry and leveraging a wider set of AVEVA and third-party devices and applications

AVΞVA

What is AVEVA Operations Control?

Rethink your approach to operations control. By removing architectural limitations and connecting teams with comprehensive capabilities and real-time data, AVEVA Operations Control allows you to use your information and deploy tools to boost productivity, improve operational effectiveness, and increase profitability.

A user-centric industrial software subscription, AVEVA Operations Control provides access across both on-premises and cloud applications, giving you the power to choose the configuration, architecture, and deployment options that best meet your objectives.

- Empower operators with mobility through unlimited visualization and enterprise visualization. Use CONNECT to enhance collaboration and knowledge-sharing to drive continuous improvements.

- Augment real-time and historical process data with machine learning and artificial intelligence (AI) capabilities. Predict possible faults or failures proactively with industrial generative AI, advanced analytics or guided analytics.

- Increase decision-making agility while providing process guidance during execution. A single digital thread ensures everyone has the same information at the same time.
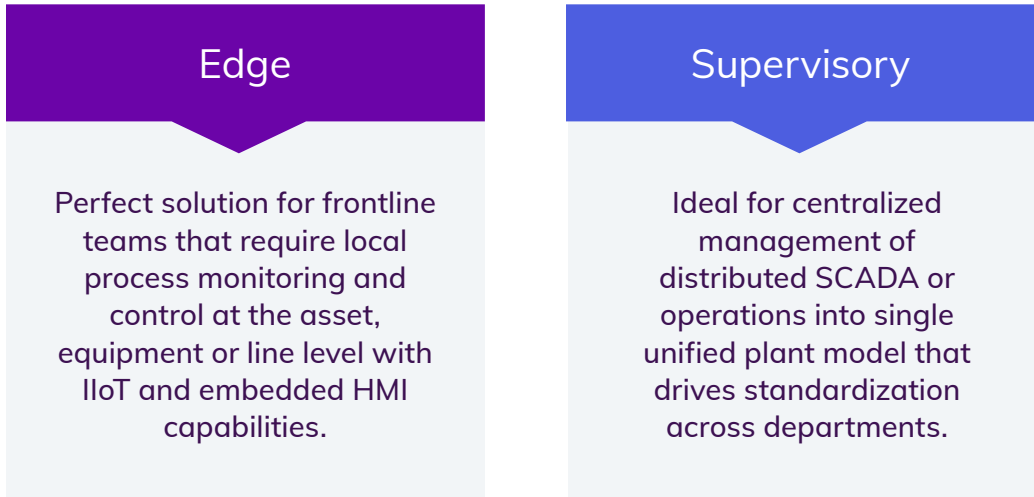
At-a-glance

- User-centric software subscription
- Architectural flexibility, including hybrid cloud
- Access to comprehensive software capabilities

  - HMI/SCADA visualization with mobility
  - Process historian
  - Reporting and analysis clients
  - Analytical dashboarding with AI insights
  - Collaboration and team communication
  - Knowledge and skills management
  - Manufacturing execution
  - Communication drivers
  - Development tools
  - System health and diagnostic tools
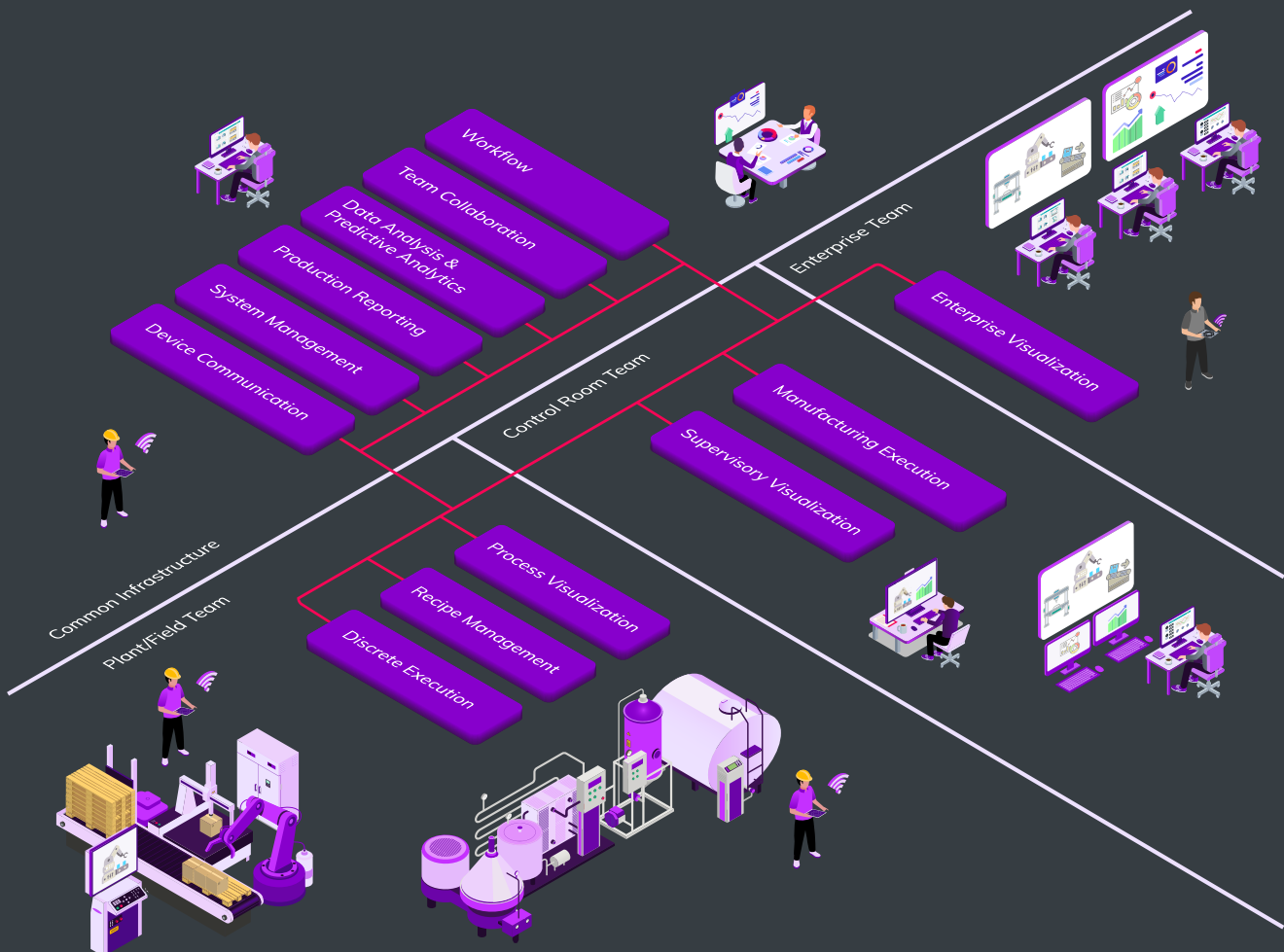
- Inclusive technical support and software updates

This hybrid-cloud offering provides a frictionless, integrated user experience that enables organizations to benefit from the information and functionality of AVEVA's broad range of proven software. Transform your operations with unparalleled insights and digitize work processes and knowledge.

Operations control as your foundation

Edge

Perfect solution for frontline teams that require local process monitoring and control at the asset, equipment or line level with IIoT and embedded HMI capabilities.

Supervisory

Ideal for centralized management of distributed SCADA or operations into single unified plant model that drives standardization across departments.

Two subscription packages provide all the tools necessary for the plant/field and control room to drive actionable information, collaborate effectively, and accelerate their operational excellence. AVEVA Operations Control features rich capabilities, including visualization, mobility, data storage and analytics, collaboration, and development tools in a hybrid-cloud and on-premises configuration. Add-on packages provide additional functionality for CONNECT industrial AI, visualization and data services, as well as manufacturing execution and AI-guided analytics.

Operational visibility

Proven and powerful visualization capabilities enhance user awareness, improve responsiveness, and reduce the burden of information overload. Whether deploying for a fixed or mobile workforce, AVEVA's visualization technology accommodates the unique needs of industrial environments with rich graphics, intuitive user interface best practices, and operational context. This provides all teams with end-to-end visibility into how operations are performing and what actions they should take to achieve desired outcomes. With CONNECT integration, you can also identify and alert on process, asset and operator anomalies to reduce unplanned downtime and maintenance costs.

Capability highlights

- Unlimited architectural flexibility
- Responsive web clients
- Engineered and self-service applications
- Templatization, styling, and standardization options
- Vector-based graphics libraries
- Portable graphics with built-in editor
- Extensible functionality with apps and widgets
- Alarm management
- Collaborative on-premises and cloud development
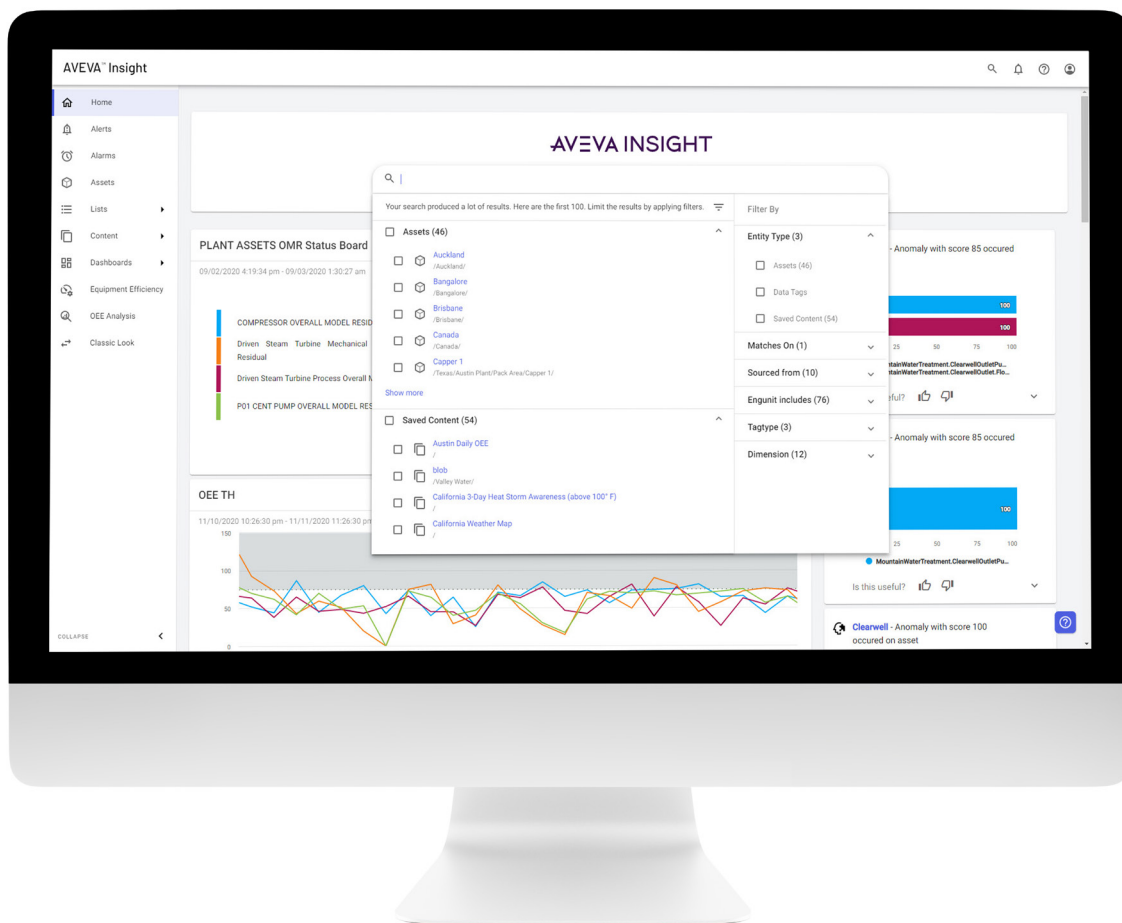- Security and authentication management

Digital thread

Capture and store real-time process data that resolution operations teams need to make decisions immediately. Localized historians provide industrialized databases designed for more than 150,000 values per second in a data format that speeds analysis and reduces disk space. Use stored data directly for visualization and analysis tools or forward it across network firewalls for aggregation, deeper analysis, and the application of advanced analytics (AI) on-premises or in the cloud.

Capability highlights

- High-performance database
- Two million+ tags supported
- Tiered historian architecture options
- Capture process values, summary values, engineering units, alarms/events, acknowledgements, and annotations
- Secured store and forward for intermittent networks
- 13+ data-retrieval modes
- Historical playback through visualization
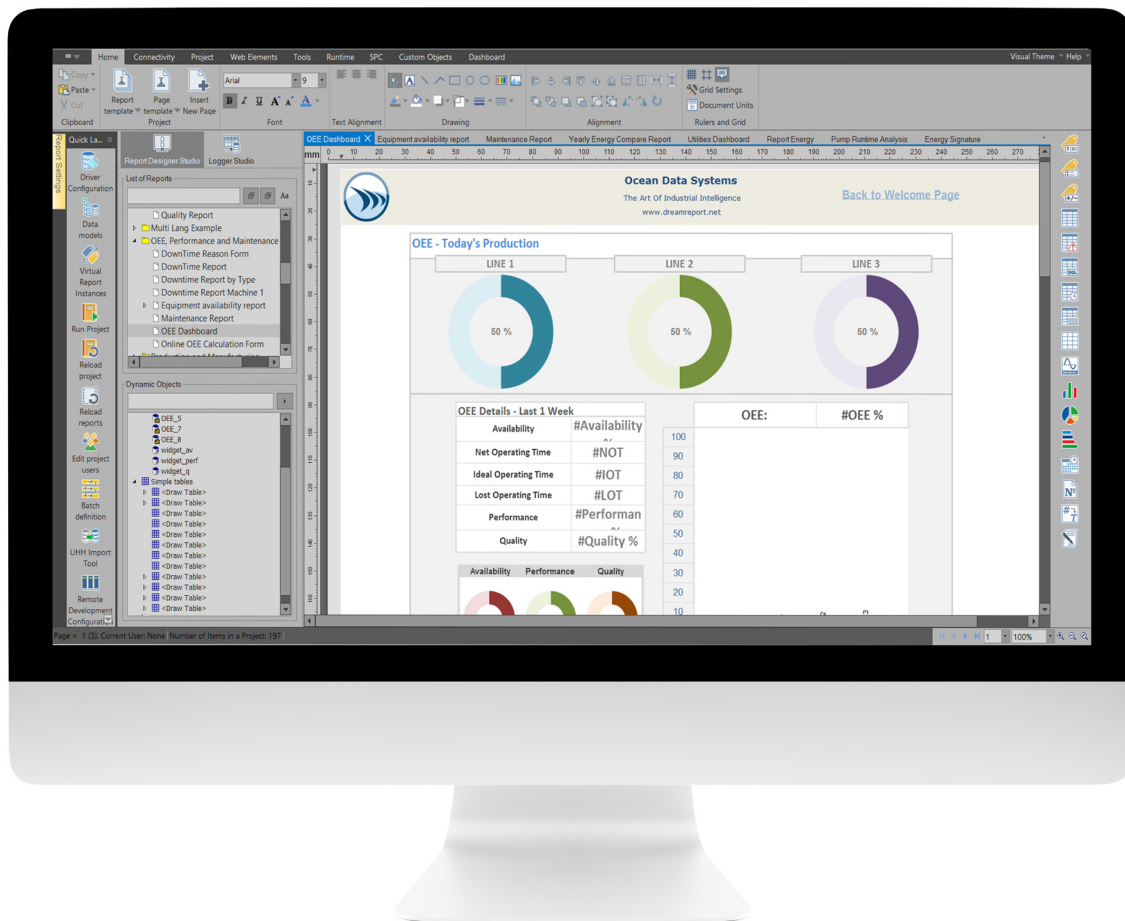- Seamless data integration and extensibility

Data analysis

Make the most of analytical tools that slice and chart real-time data to extract insights for troubleshooting or operational reporting. Teams can utilize several capabilities that help identify problems with detailed trending, querying, and charting of information that is easier to share.

Dashboards accessible through the cloud provide easy access for remote users outside the control network and offer the scalability of AI for predictive analytics. You can also selectively share operations data with stakeholders, partners and customers through Databricks and Microsoft Fabric, simplifying the creation of detailed reports that can be preformatted and distributed automatically.

Capability highlights

- Examine and replay data trends
- Visualize trends and historical data
- Use self-service dashboards on-premises and in the cloud
- Detect visual anomalies and get AI-supported predictive insights
- Easily assemble dynamic and custom reports for digital distribution
- Query and export data for further use in other applications like Microsoft Excel
- Replicate data into AVEVA™ PI System™ and CONNECT Data Services.
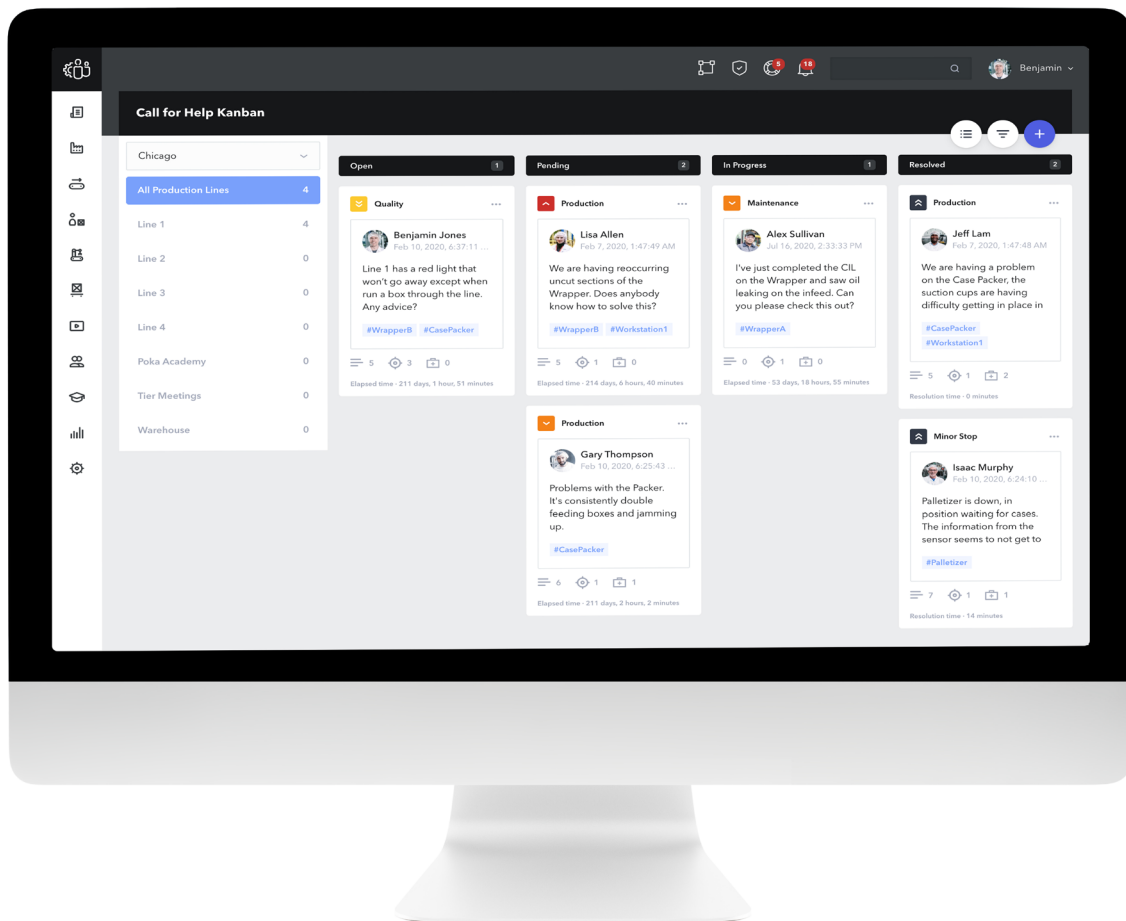- Visualize and share data with others

Collaboration

Connect teams through digital communication that links process context with unstructured information. Post images and video and use chat and calls for help to raise awareness of issues and crowdsource resolutions from on-site and off-site colleagues. Easily track and document conversations and comments across shifts in line with processes and assets. This simplifies handovers and encourages greater collaborative interactions between teams.

Capability highlights

- Post messages tagged to specific assets, areas, and people
- Apply filter criteria and search posts
- Attach videos and imagery to provide greater context to posts
- Receive notifications and updates on posts
- Raise issues and request help from colleagues and assigned experts
- Scan QR codes to link directly to asset content
- Store asset information like manufacturer, model, location, and equipment documentation
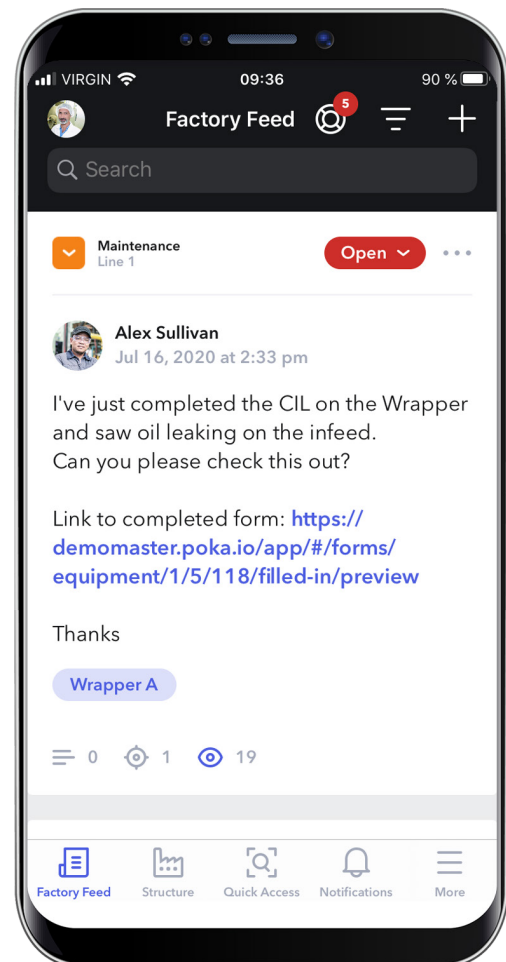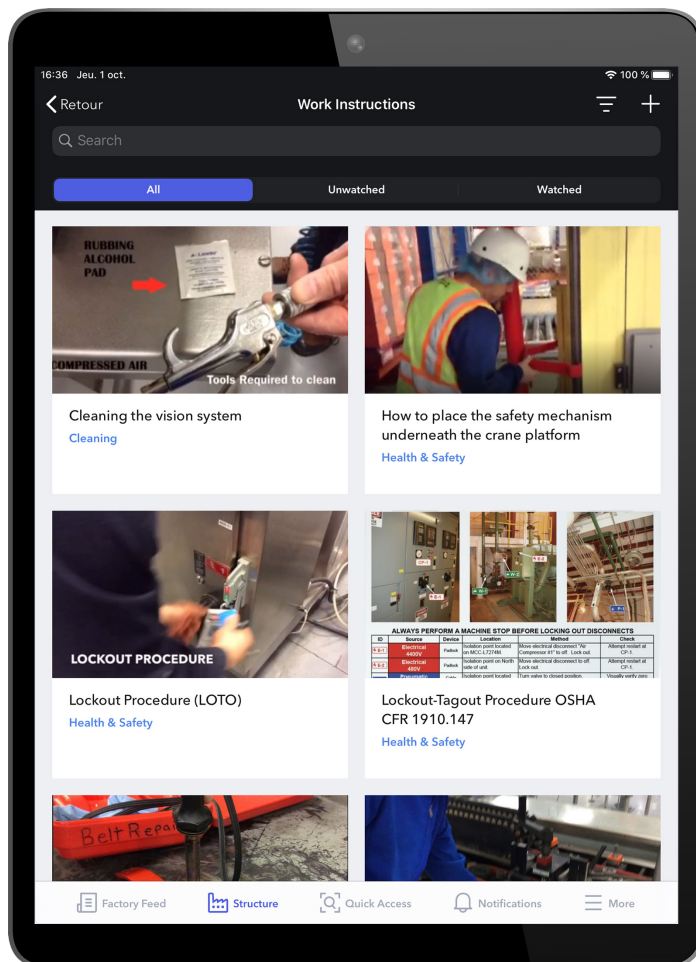- Create digital forms and define submission processes

Coordination and learning

Build a digital library of knowledge and microlearning resources that users can access from their workstations without taking time away to attend classroom training. Record and document procedures and troubleshooting steps. Enforce skill assessments to keep teams up to date on what they need to know. Combine learning management, real-time data, and certification to supplement team management across departments and sites.

Capability highlights

- Capture work instructions and troubleshooting resolutions as video and imagery
- Tag relevant content to specific equipment
- Structure training content with categories, assets, locations, and languages
- Set up training approval and revision workflows
- Customize skill types and attach required learning content
- Measure staff skill levels and promote upskilling
- Manage skill coverage and ensure staff resiliency
- View staff profile with activity, assignments, and skills information

Vendor-agnostic, actionable information

Take advantage of a neutral approach to operations control that offers greater choice with adjacent hardware and software implementation. Utilize a large set of drivers for data communications, standards, and API options for interoperability. Extend functionality through additional AVEVA and third-party applications. Our legacy of supporting integrations and partner-supplied solutions continues to stand strong in cooperation with, and advancement of, industrial digital transformation initiatives.

Capability highlights

- Use drivers for telemetry (DNP/IEC), IoT (MQTT/OPC UA), industrial standards (Modbus/SNMP), proprietary protocols (Rockwell, Siemens, BACnet, GE, Beckhoff), and more
- Take advantage of REST and other API types
- Export data in common formats
- Deploy software across various OS, cloud infrastructure, and architectural requirements
- Sync user management with authentication services
- Leverage AVEVA's product partner network for joint hardware and software solutions

Transform your operations

Have confidence that your operations are resilient and designed to meet the on-demand and data-driven needs of your workforce. AVEVA Operations Control gives users a clear perspective by leveraging a shared information and application infrastructure that enables comprehensive real-time visibility across teams and sites. Transform your operations with a holistic software subscription that delivers unparalleled flexibility and convenience for visualization, data and analytics, collaboration, and more as a hybrid on-premises and cloud configuration.

AVEVA Operations Control delivers what it takes to achieve operational awareness for industrial and infrastructure organizations in a digitally driven world.

For more information on AVEVA Operations Control,
please visit: **aveva.com/align-your-teams**