Empowering AVEVA™ PI System™ users with visualization

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Agenda

• AVEVA™ PI Vision™ overview
• Recent releases + roadmap
• AVEVA™ Connect visualization services overview
A hybrid data infrastructure from edge to plant to community

AVEVA PI Data Infrastructure

- AVEVA PI Server - core
- AVEVA PI Server - hybrid
- Edge Data Store
- AVEVA Adapters
- PI Connectors
- PI to Data Hub
- Data Hub to PI*
- PI Interfaces

AVEVA CONNECT

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Community

- Field technician
- Service provider
- Reliability engineer
- Equipment manufacturer
- Information systems developer
- Data scientist
- Plant manager
- Process engineer

AVEVA Connect visualization services
AVEVA Advanced Analytics
AVEVA Data Hub data views
AVEVA Data Hub community
AVEVA PI Vision
AVEVA PI DataLink
AVEVA PI System Access

AVEVA PI Data Infrastructure

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The fastest, easiest way to visualize AVEVA™ PI Server data

• An easy-to-use, self-service, scalable solution

• Access data from any web browser, including mobile device browsers

• Organize and share displays across your organization
AVEVA™ PI Vision™ serves data consumers across your company

**Operator & engineer**
Build real-time data displays in minutes

- Fast, self-service display building
- No waiting for IT assistance
- View on any device

**Plant manager**
Optimize the performance of your team

- Quick access to data
- Mobile capabilities
- Shorten the learning curve of new team members

**Data analysts & IT**
Reduce the resources needed to help operations with data access

- Rapid deployment and roll-out
- Centrally manage displays

**Business managers**
Easily view KPIs across your entire organization

- Visibility into enterprise information
- Conserve IT resources
What’s new in AVEVA™ PI Vision™ 2022?

Enhanced event analysis and display standardization

- Overlay attributes in Event Comparison trends
- Freehand zoom and pan Event Details trends
- Maximize a trend
- Show traces and scales with colors and line styles that ease visual comprehension and prioritization
- Align child event frames by name
- Expand/collapse all event frames on Gantt chart
- Switch between different units of measure at the symbol level
- Custom display default settings to organizational standards
- Display trend value while moving the trend cursor
Streamlined, secure access: modern authentication comes to AVEVA PI System

• Reduce IT effort and integrate AVEVA PI System with your identity provider of choice
  o Enabling single-sign on (SSO), helping you to more easily and securely manage resources and users across your enterprise
What’s new in AVEVA™ PI Vision™ 2023?

Streamlined, secure access: modern authentication comes to AVEVA PI System

• Claims-based authentication via OpenID Connect for AVEVA PI Vision end users

• AVEVA PI Vision authentication mode configurable from admin site

• Configure user access levels from AF identities

• User log-out capability
## What is next for AVEVA™ PI Vision™?

### Released: PI Vision 2022
- **Modern Authentication**: OpenID Connect for the PI Vision main site
- **Display theming**: Default symbol and display configuration for standardizing display styles
- **Enhanced event comparisons**: New capabilities to compare events, including overlay attributes, freehand zoom
- **Trend cursor values**: Easily view the changes in value as you drag the cursor across the trend
- **Units of measure**: View AF attribute data in the unit of measure most applicable to your end users

### Released: PI Vision 2023
- **Modern Authentication**: OpenID Connect for the PI Vision admin site and Display Utility
- **Advanced tag search**: Ability to filter on specific tag attributes

### In Development
- **Modern Authentication**: OpenID Connect for the PI Vision admin site and Display Utility

### Researching
- **More display editing capabilities**
- **More process monitoring capabilities**
- **More display and user management capabilities**

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**See the Feedback Site for up-to-date information on features being evaluated!**
Modern authentication: Domainless support

- Support OpenID Connect authentication to AVEVA PI Vision admin site and display utility
- Support architectures where AVEVA PI Vision is not joined to a domain
- Support a Kerberos-free configuration
What’s coming in AVEVA™ PI Vision™ 2023 SP1?

Advanced Tag Search

• Narrow tag search results by filtering on tag attributes

• View description alongside tag name in tag search results

• View current tag values on hover in tag search results
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Enterprise visualization through AVEVA™ Connect

Zoe Dodgson
How to address the changing workspace?

Information silos and inconsistency; slow responsiveness

- Local teams primarily own access to information and spend time manipulating the data into other forms
- Off-site leaders must wait for report and insight delivery
- Further inquiries or inconsistencies require restarting the information cycle
How to address the changing workspace?

Remote and virtual teams still need access to reliable data

- Labor shortages, costs, and other dynamics are shifting workforces off-site
- These remote and virtual teams still require access to information generated on-premise
- Tunneling into on-site applications can present cybersecurity, accessibility, and maintenance challenges
- These users might still need to spend time extracting and manipulating data from on-premise tools
How to address the changing workspace?

Aggregated data with cloud-based applications provides seamless access

- Utilizing the cloud to aggregate and display information reduces on-premise data-gathering hurdles

- Diverse teams across operations, reliability, sustainability and others can access the information that matters to them

- Users can retain the structure, design and format of their work

- Scalability of the cloud ensures short time-to-value for initial deployment with the ability to grow systematically
Aligning with the broader AVEVA strategy

AVEVA operations & execution portfolio aligning with broader AVEVA strategy of providing a single “industrial information management” and “visualization” service that spans from engineering to operations...
Native cloud apps & services
These cloud-based apps & services extend our on-premise (edge) and cloud-based capabilities with:

- **Data hub** - enterprise data historization & sharing
- **Visualization service** - enterprise visualization & dashboarding
- **Advanced analytics/AI** - predictive & prescriptive analytics
- **Engineering** – 3D design, project execution, & documentation
- **MES/MOM capabilities** - lightweight, fast time to value

“Connected” applications
- Value-add cloud services from AVEVA Connect
- Content & config managed centrally from AVEVA Connect

AVEVA cloud architecture
Connect visualization
Influence the AVEVA PI System roadmap

https://feedback.aveva.com

Let us know your product feedback!
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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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