AVEVAWORLD

PARIS



PARIS

OCTOBER 2024

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AVEVA[™] Unified Engineering Present and Future

Ross Kilmurray - Director, Engineering & Design



The challenge



Owner data

AVEVA

Engineering 3.0

Disconnected systems, teams and project data

The challenge

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Engineering 4.0

Connected systems, teams and project data

The challenge

Collaboration challenges for current solutions



Multiple technologies drive incremental cost and have performance limitations

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Significant time and cost for both setup and maintenance require experienced resources



IT security and data access controls demands limit extent of data sharing and collaboration



Brittle configurations that cannot be adjusted as projects, facilities, and businesses mature





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What is AVEVA Unified Engineering?



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A collaborative, integrated, cloud-based, preconfigured, data-centric, performant solution for complex projects



A collaborative, integrated, cloud-based, preconfigured, data-centric, performant solution for complex projects



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Time to value

Out-of-the-box content



AVEVA Unified Engineering 1D/2D/3D



Electrical & Datasheets Instrumentation

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P&ID

Process Mechanical

3D model

	APS/ACP/ISP		
	AVEVA Engineering		AVEVA E3D Design
Data model	E&I symbols and libraries	Mechanical datasheets	Sample project
Mechanical and E&I datasheet templates	Sample 1D data	Electrical datasheets	International standard pipe fittings
Mechanical grids	AIM interface	Instrumental datasheets	Generic materials data
Electrical grids	Sample p&ids	PFD symbols (ISO 10628)	Popular vendor fittings
Instrumental grids	Sample pfds	Electrical standard symbols	Standard pipe material specs
PFD symbols	Import/export views	Instrumental standard symbols	Cable trays, pipe supports, HVAC parts
P&ID symbols	Integration configurations	Grids	Mining equipment
Process datasheets	P&ID Symbols (ISO 10628)	Lists	

A collaborative, integrated, cloud-based, preconfigured, data-centric, performant solution for complex projects



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Evolution to a single unified solution

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Evolving from separate commercial and technical offerings to a single unified solution





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P&ID









Process, PFD and P&ID functionalities

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E&I functionality

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E&I functionality

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- Space reservations, initial equipment layout, MV cable routing initial design
- Equipment layout

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- Cable tray design & cable routing
- Detail drawings



1D/2D common functionality

Datasheet, datasheet list, list management







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A collaborative, integrated, cloud-based, preconfigured, data-centric, performant solution for complex projects



The "Office 365" of engineering and design solutions



Unified Engineering Evolution



Unified Engineering Evolution





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AVEVA Unified Engineering: Communities



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AVEVA UNIFIED ENGINEERING





Business value



Reduce time to value

Out-of-the box content and reference projects to simplify configuration and drive reduction in time to value



Streamline collaboration

Enable engineers to complete deliverables faster, and with greater transparency and maturity to deliver projects on time and on budget



Reduce cost, risk and delays

Minimize engineering errors and accelerate project execution to deliver:

50% faster FEED stage

40% increase in engineering efficiency 5% reduction in TIC



Maximize margins

Reduce cost throughout capital projects while improving the quality and reliability of engineering deliverables AVEVA UNIFIED ENGINEERING

Roadmaps



Unified Engineering Roadmap

Version 3.0 – Q4 2024

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- Full 1D/2D/3D capability
- Communities phase 1
- Deployable on-premise or hybrid

Unified Engineering Roadmap

Version 4.0 – Q3 2025

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- Communities phase 2
- Additional regional availability throughout 2025
- Online (streamed) access





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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.



And please visit us on the Digital Twin booth in the Innovation Zone to learn more and see a demo...



Recommended Sessions

Técnicas Reunidas Journey to SAAS

Técnicas Reunidas Tuesday, October 15 @ 3:15 pm

WACKER Chemie AG increases efficiency with cloud-hosted engineering environment

WACKER Chemie AG Wednesday, October 16 @ 9:45 pm

Connecting design stages through the 3D Model - from Basic to Execution with AVEVA E3D

Petrobras

Wednesday, October 16 @ 11:30 am

AVEVA's Engineering Portfolio Panel Discussion

AVEVA, Wood, Petronas, Caliqua AG Wednesday, October 16 @ 5:00 pm

Capital project synergy: EPCs and OOs in the energy transition

Engineering Roundtable Discussion Thursday, October 17 @10 am



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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