Unleash your engineering agility with EcoStruxure Automation Expert

How we answer the future of automation

Yung Wallace – CARGILL
Tilo Kaschubek – AVEVA
Leif Juergensen – Schneider Electric
Yung Wallace, Cargill
“Our digitization strategy demands agility while keeping production up. Engineering systems must become fit for the future”

Leif Juergensen, Schneider Electric
“Shaping the future of automation with EcoStruxure Automation Expert our platform independent and vendor agnostic solution”

Tilo Kaschubek, AVEVA
“Data is unique. The more people who consume the same data, the more valuable it becomes.”
The future of automation is OPEN

“The factory of the future will have only two employees, a man and a dog. The man will be there to feed the dog. The dog will be there to keep the man from touching the equipment.”

Warren G Bennis
Our digitization story demands more agility along the whole life cycle of our engineering and operations.

Engineering and support systems must be fit for the future, agile and easy to use during all stages of the lifecycle and allow transparent sharing of data across tools & systems.

Systems should be open and decoupled in every aspect, based on industry standards that support plug-and-produce and reduce process downtime.

Decoupling hardware from software is an important prerequisite.
To reduce the time of implementation, breaking vendor locks and generate substantial saving of total cost of ownership.

UniversalAutomation.org is well aligned with our strategy for open automation.
Universal automation is the solution

A combination of:

1. **IEC 61499 standard** – a technology enabler

2. A **community** of Users and Vendors sharing a **common runtime execution engine** committed to portable automation software apps – UniversalAutomation.Org (UAO)

Think of it as the Android of Industrial Automation
Integrated lifecycle to deliver unprecedented choice and flexibility

**Design**

- AVEVA Unified Operations Centre
- AVEVA Batch Management
- AVEVA Data Hub
- AVEVA Infouch HMI
- AVEVA System Platform
- AVEVA Historian

**Build**

**Operate & Maintain**

**3rd Party**

- AVEVA

**End-to-end Cybersecurity**

- EcoStruxure Automation Expert

- Platforms range from affordable Raspberry Pi to powerful servers from multiple vendors

- Connected Smart Devices

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Digital continuity high-level workflow
Digital continuity high-level workflow

EcoStruxure Automation Expert

Control Application

Supervisory Automatic Generation
Templates Instances OPC UA Config

HMI Templates

Library

Knowledge Base

CAT/Custom Library

Asset Hierarchical Browser

Asset Link for Bulk Engineering ↔ Digital Continuity ↔ Asset Link for HMI

AVEVA P&ID
AVEVA Diagram

AVEVA ENG

Other Engineering Data

AVEVA OMI

System Platform

AVEVA Connect

Process Engineer

Control Engineer

Control Engineer

Control Engineer
AVEVA Connect – Industrial Cloud Ecosystem

Remote operations monitoring
Data science & advanced analysis
Applications
Data sharing with trusted ecosystem partners

Services for industrial use cases
Empower partner solutions & services

AVEVA Connect

Service & usage management: monitor budget, consumption, and permissions
Data services: aggregation, sharing, and contextualization
Visualization services: rich persona-based experiences
Modeling & analytics: robust calculations using AI and ML
Application development services: solutions to enhance customer use cases

Coherent from edge, on-prem to cloud

AVEVA Data Hub

MES Data
3D Engineering Data
Process Data

Remote assets, sensors & IIoT devices
AVEVA data sources, control systems & historians
3rd party data sources

Industrial data sets
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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