MAY 2022

Four Pillars of a Trusted Information Infrastructure

Tim Sowell + Bryan Owen



The reality of convergence. Industrial Information Platform.

Transforming Industrial Landscape

Imperatives for an Industrial Information Platform

Expectations for Data Platform

New Work Landscape

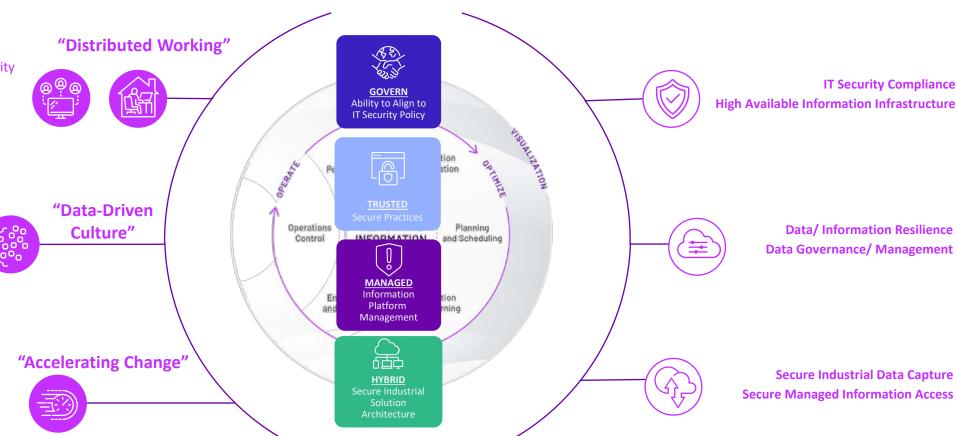
- Enable collaboration & efficient productivity
- Empower remote workforce & teams
- Leverage partner ecosystems
- Create, acquire & transfer knowledge

Secure Industrial Information Thread

- Data ownership & protection
- Increased enterprise data literacy
- Data Sharing & access management
- Breakdown information silos

Scalability and agility

- Increase in deployment speed
- Flexible application consumption
- Minimize IT burden & TCO



Imperatives for an Industrial Information Platform

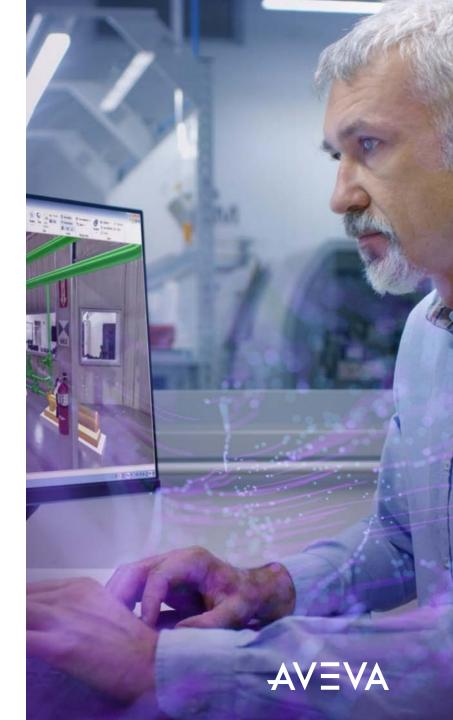


- Ability to Federate to corporate identity provider
- Align to IT security groups to roles/ permissions
- Ability to apply corporate security policies
- Software asset compliance management









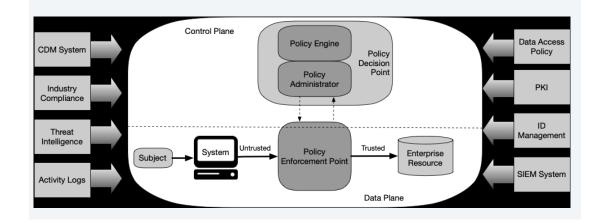
Identity is the key to access your data

Your journey towards zero trust architecture starts with strong proof of identity

STANDARDS (NIST SP 800-207)

Logical Components of Zero Trust Architecture

- Enhanced Identity Governance
- Micro-Segmentation
- Software Defined Perimeters



AVEVA CONNECT

Modern Authentication and Transport Layer Security

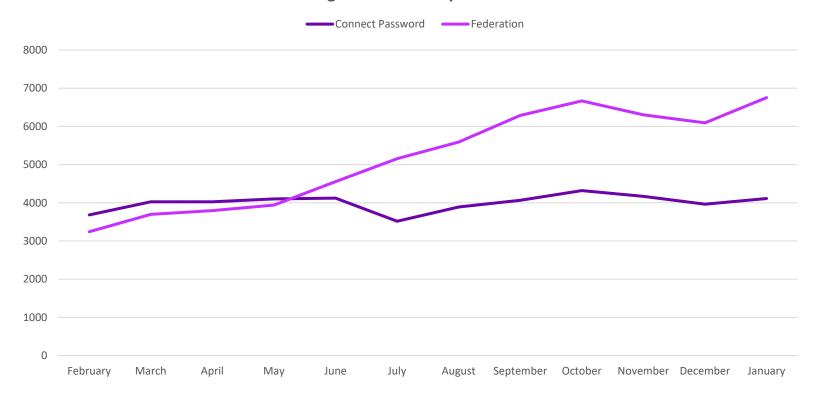
- OpenID Connect (OAuth2)
- Federated Identity Provider (recommended)





AVEVA Connect platform becoming Trusted

The growth of enterprise users



AVEVA Connect adoption

- 15,000 monthly active users
- Over 6,000 accounts
- Averaging 100,000+ logins per week

Federating to your company identity provider

- Ability to manage users as part of corporate
- IT Security Policies on users is aligned
- Corporate User Groups are associated with AVEVA Connect Roles/ Permissions

Trusted authentication

 AVEVA Connect IdP can delegate authentication to Identity Providers that support SAML 2, OpenID Connect, ADFS or Azure AD



Software asset management compliance approach

TRACK UNDERSTAND MANAGE

Global Empowerment

- Global access and management of AVEVA Software
- Unified Managed across sites, and on premise and SAAS services

1000

One Entitlement Unit of Measure

= Flex Credits

- All offers for a customer are entitled through Flex Credits
- Credit consumption is reported as one

Unified Tracking of all AVEVA Software& Services

- On prem disconnected offers
- On prem "Connected" offers
- On line services

Usage Intelligence

- Self-service usage dashboards
- Understand adoption usage by service
- Ability export usage data for external manipulation

Budgets

- Ability to set up monthly usage budgets
- Notifications if usage patterns are exceeded
- Ability understand actual vs targeted usage

Credit Consumption

- Self-service credit consumption dashboards
- Ability export usage data for external manipulation

Service/ Software Management

- Cloud service availability thru Auth Officer
- Ability to define multiple credit agreements for local management
- Audit Logs



Imperatives for an Industrial Information Platform



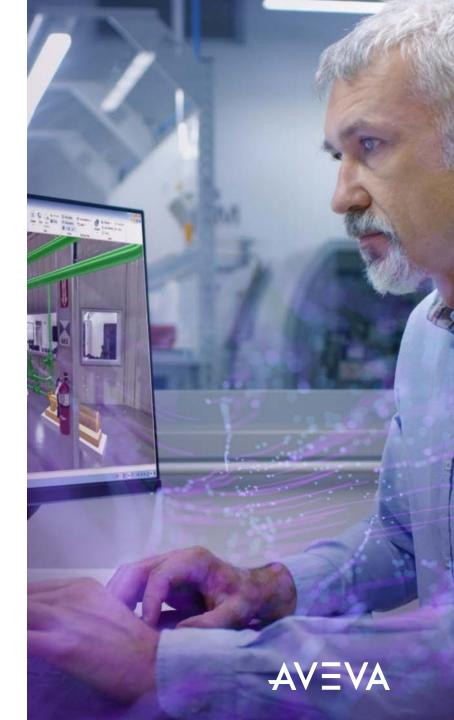
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- Verified SOC 2 trust service criteria
- Certified ISO 27001 information security management system
- Engage industry experts for security risk assessments
- Cloud Operations for platform service availability







Ensuring cloud security

Secure Development

Certifications

ISASecure SDL ISO 9001 SOC-2 ISO 27001

Industry Bodies
Cloud Security Alliance
Center for Internet
Security

Training

Static Code Analysis Secure Code Review

Security Requirements and Risk Assessment

Verification Testing

Threat Modeling in Architecture

Security Review Release Gate

Security Design Requirements

ISO 30111 for Incident Response

Keep our customers secure

- Advance the Security Posture of our products
- Manage supply chain risk
- Provide actionable information about issues (CERT)

Security process compliance

- Certified ISASecure SDLA processes
- Certified development environment
- Certified Quality Management System (QMS)

Increase security awareness

- Collaboration with industry stakeholders
- Ensure Security Requirements are defined
- Build Security into Architectures



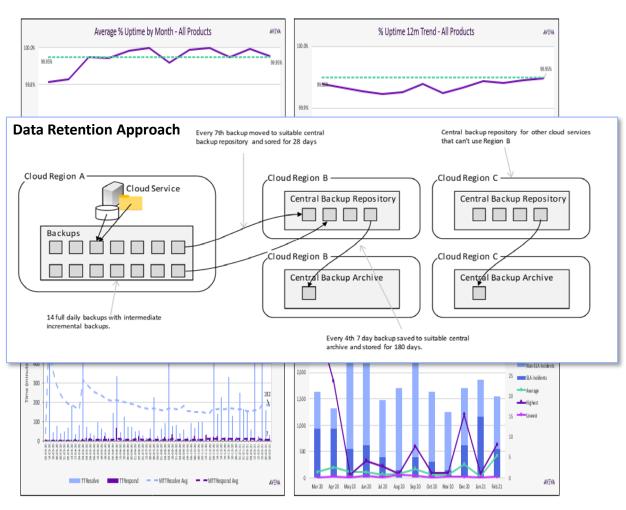
Security processes > built using advanced security tools, compliant with international standards and *strongly verified*.







Industrial software as a service > availability is given



SECURE DEPLOYMENT/ SYSTEM MANAGEMENT

Security Policies

Security Monitoring and Alerting

Network and Domain Monitoring

> Security Logging Digital Tracing

Structured Data Retention

Alliances

Microsoft®

Cisco®

Outpost24®

Splunk[®]

Cloud Security Alliance®



AVEVA Global Cloud DevOps provides 24x7 monitoring of all AVEVA solutions and services. Cloud solutions are instrumented for automated deployment and monitoring wherever possible.



Imperatives for an Industrial Information Platform



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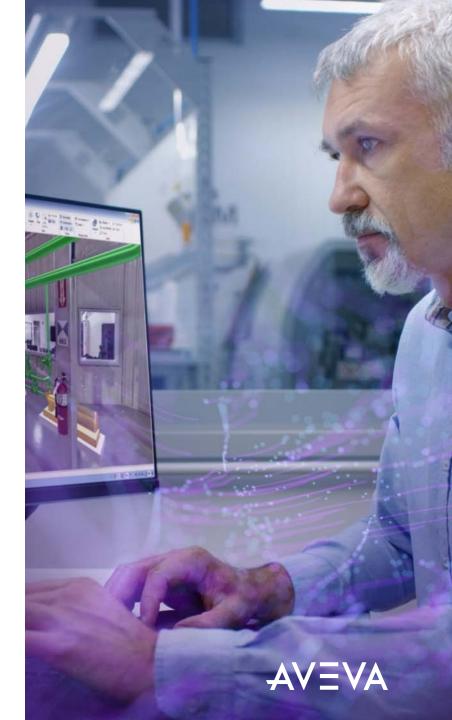


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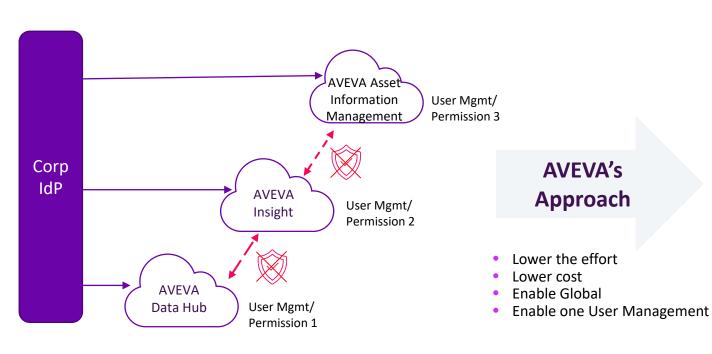


- Ability combine data into engaging unified information model
- Data segmentation (residency) management
- Information access management
- Data validation / data trust





Enabling managed industrial solutions



Account Capabilities

Account Structure

SSO- Idp fed

User Management

Solution Management

Edge Deployment Mgmt

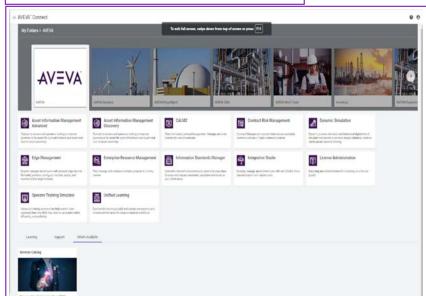
Usage Intelligence

Entitlement Mgmt

On Premise License Mgmt

Trust Mgmt

API Access Mgmt



Customer Managed AVEVA Connect Account (Estate)



- Trust between services
- User management across services
- Ability to have globally deployed solutions in different regions

Supervisory Systems

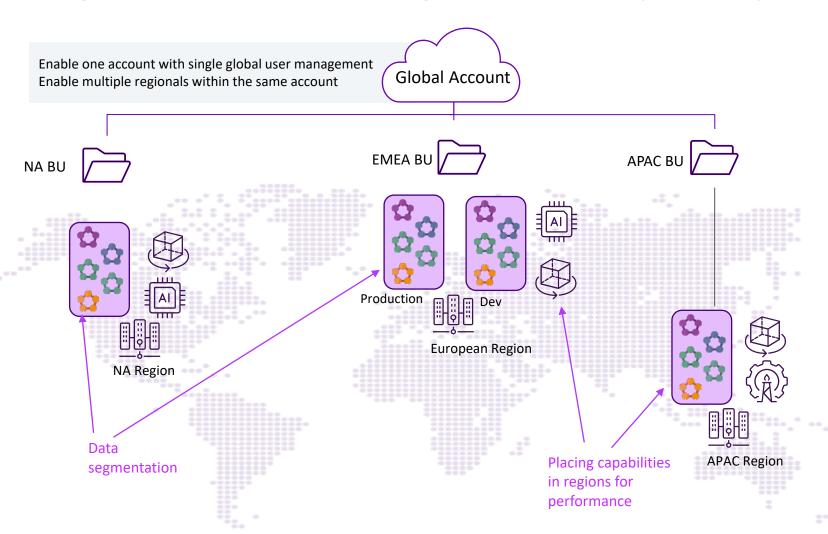
- Account API access management
- One entitlement management
- One usage intelligence

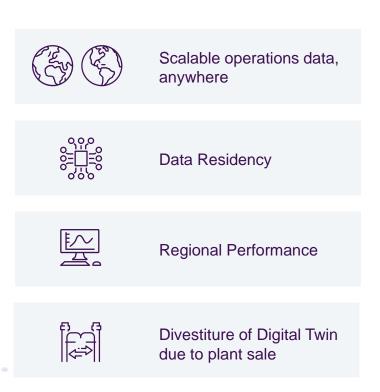


Remote assets

- Industrial solutions require multiple capabilities
- They need share data to work as a solution
- They need to aligned

Regionalization management > capability in one account

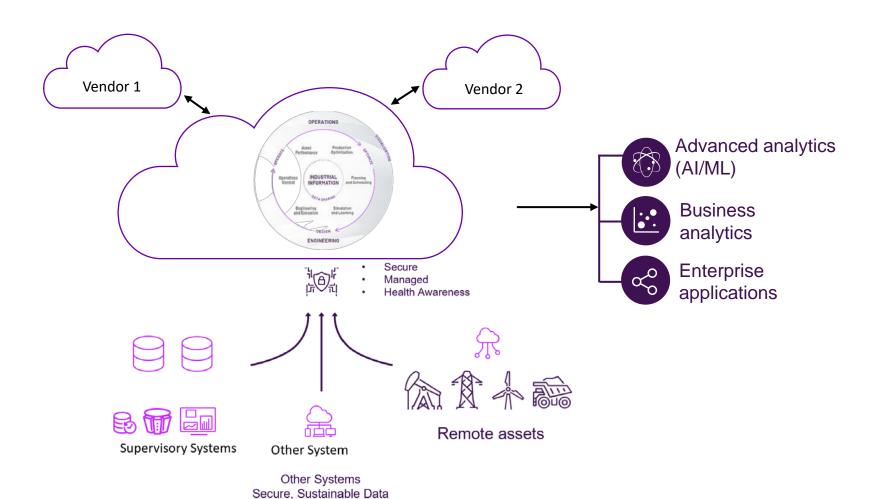






Data sharing management

Pipeline







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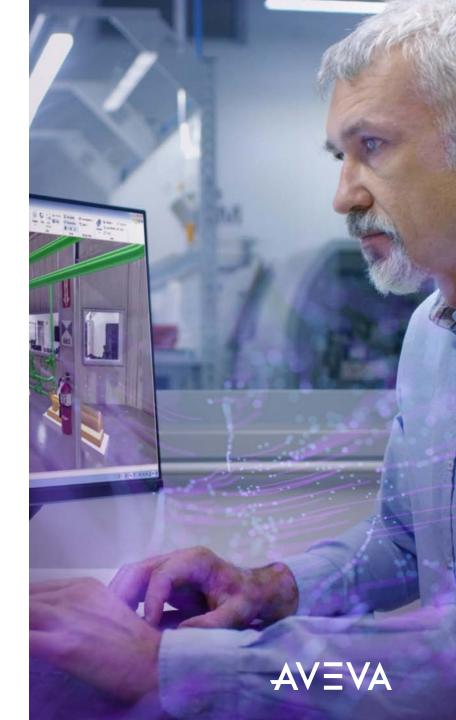
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- Managed Plant floor/ industrial capture
- Resilient autonomous services
- Secure plant data connectivity
- Data quality



Secure architectures to interface to plant

Proven and secure options to unify Industrial Data



Sustainable Across 1000s of Connects



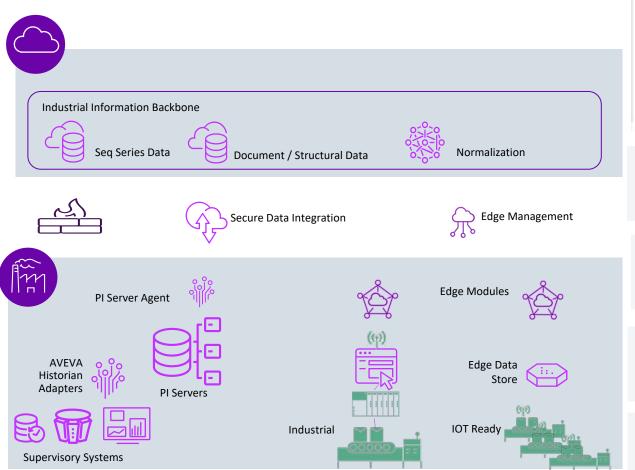
Secure from Bottom up

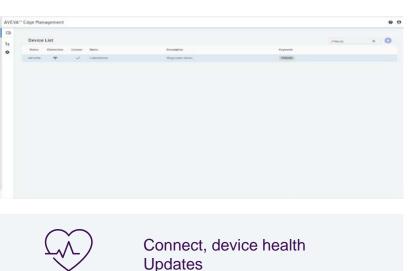


Data Resilience



Absorb Change









Secure establishment of connection from plant side



Native Secure integration from on-premises systems "adapters" (e.g. PI Servers, Wonderware)



Powerful safeguards to counter destructive malware attacks



Reduce third party access to corporate networks

Manage 'data out' rather than 'users in' to sensitive assets



Deploy alternate paths to access critical data streams

- Access to cloud service from BYOD
- Emergency unit operations from autonomous edge

Use the '3-2-1 rule' for critical operations data

- Three backups of your data
- Two different storage types
- One+ offsite backup industrial cloud!

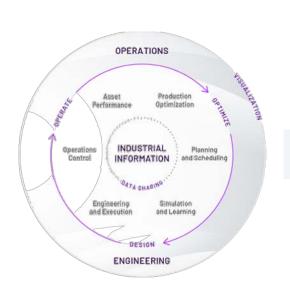




Recover Rapidly

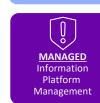


Industrially trusted > increasing shared responsibility



AVEVA is your Industrial Information Platform Partner







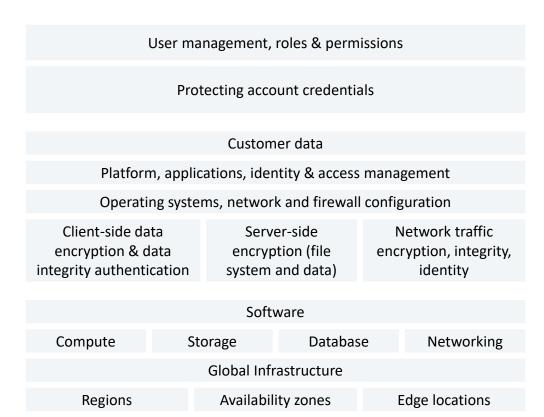
Customer end users

Responsible for security "at" use

AVEVA cloud solutions

Responsible for security "in" the cloud

Public cloud service provider Responsible for security "of" the cloud





謝謝

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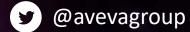


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AVEVA is a global leader in industrial software, driving digital transformation and sustainability. By connecting the power of information and artificial intelligence with human insight, AVEVA enables teams to use their data to unlock new value. We call this Performance Intelligence. AVEVA's comprehensive portfolio enables more than 20,000 industrial enterprises to engineer smarter, operate better and drive sustainable efficiency. AVEVA supports customers through a trusted ecosystem that includes 5,500 partners and 5,700 certified developers around the world. The company is headquartered in Cambridge, UK, with over 6,500 employees and 90 offices in over 40 countries.

Learn more at www.aveva.com

