



AVEVAWORLD

ACCELERATE INDUSTRIAL INTELLIGENCE

AVEVA WORLD MILAN, MAY 2026

MES Portfolio Update

Jeff Barkehanai, MES Product Manager, AVEVA

AVEVA

AVEVA WORLD MILAN, MAY 2026

Agenda

MES Portfolio Update

Allianz MiCo
Milano

Portfolio Overview

Strategy and Investments

Events in CONNECT

Product Roadmaps

Jeff Barkehanai

MES Product Manager

- AVEVA
- Jeff.barkehanai@aveva.com

QR Code
Placement Guide



MES Portfolio Product Managers



Jeff
Barkehanai

MES
Enterprise Integration
Hybrid MES (MES)



Apurva
Shukla

Batch Management
Recipe Management
Work Tasks



Jean-Pierre
(JP) Caron

Model-Driven MES
Planet Together
Hybrid MES
Visualization



Andreas
Ruth

Composable MES



Nina Nicholls

Production
Management
Hybrid MES Lead
(Production
Management)

Review of the MES Portfolio

Batch/Recipe Management Applications



Flexible batch management

Maximizes asset utilization, plant throughput and recipe agility with sophisticated equipment arbitration and concurrent batch execution capabilities.



Formula management and recipe execution

Effective formula and recipe management that provides agility and increased operational efficiency while securing process and product quality.

Product Manager – Apurva Shukla

Review of the MES Portfolio

Manufacturing Execution System/Manufacturing Operations Mgt. (MOM) Applications



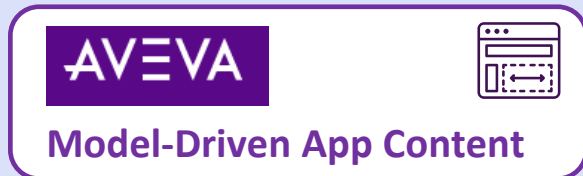
Performance, Operations & Quality management

Increases plant asset utilization and performance by providing accurate information on equipment downtime and efficiency.

Improves production execution consistency, visibility and agility in hybrid industries.

Improves product quality and consistency through real-time statistical process control (SPC) and analysis.

Product Manager – Jeff Barkehanai



MES application content for multi-site standardization

Pre-assembled, extensible MES application content (business rules and UIs) that accelerates time to value for multi-site MES deployments.

Product Manager – Jean-Pierre (JP) Caron



Framework and Templates for multi-site implementation

Framework and templates to build out MES use cases in a modular approach

Configurable User Interface elements to present operators with the appropriate list of tasks based on operational context.

Product Manager – Andreas Ruth



Review of the MES Portfolio

Manufacturing Execution System/Manufacturing Operations Mgt. (MOM) Applications



Performance, inventory and sustainability management

Provides visibility into the utilization and sustainability of assets and processes to react effectively to events and perform root cause analyses for reducing delays/losses and environmental impact. Tracks stock volumes and qualities across the value chain for monitoring and optimizing inventory and material movements.



Publishing of MES portfolio data to CONNECT

Hybrid capabilities for publishing MES event data from on-premises products to CONNECT and visualization of the event data

Product Manager – Nina Nicholls

Review of the MES Portfolio

“Companion” Applications



Industrial work process collaboration & governance

Orchestrates plant-level business processes across disparate domains (people, processes & systems).

Product Manager – Apurva Shukla



Enterprise application integration

Facilitates integration of plant floor applications to enterprise solutions.

Product Manager – Jeff Barkehanai



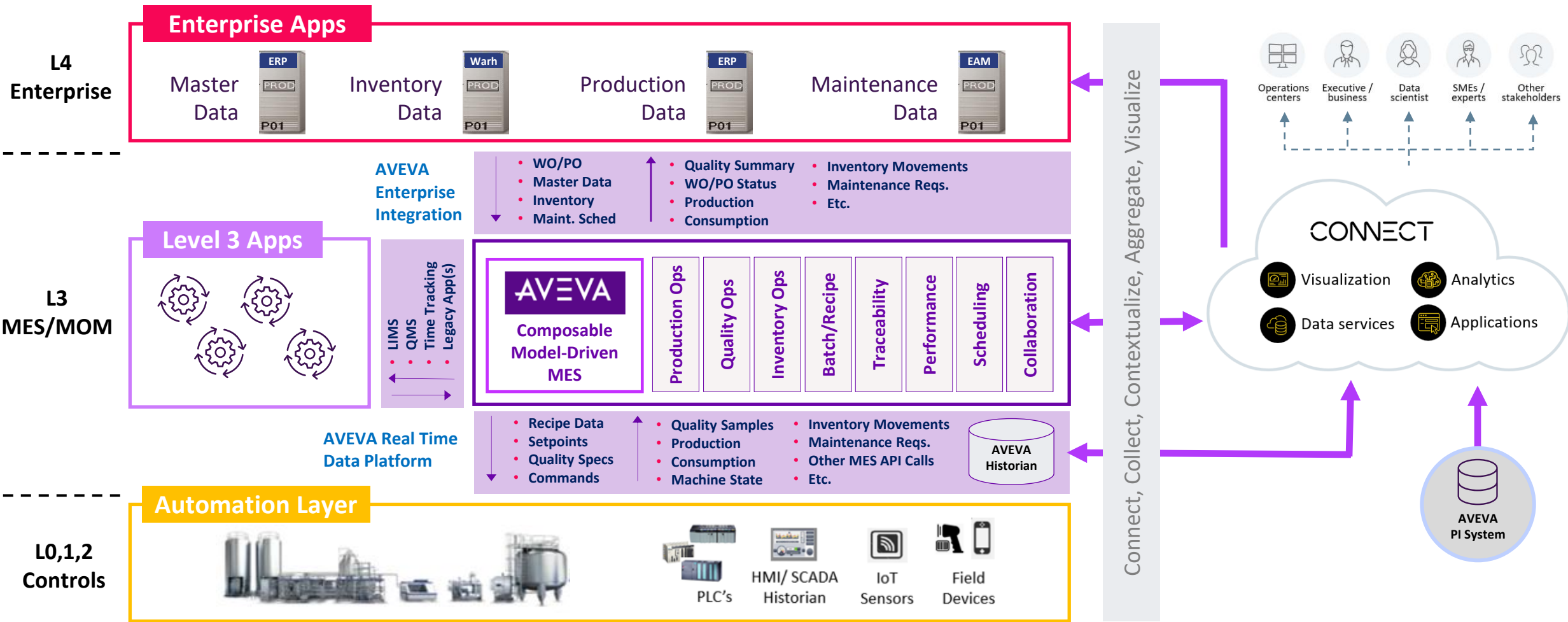
Production planning & scheduling

Improves production schedule performance, manages critical constraints, and eliminates uncertainties to reduce risk. Standard integration template with AVEVA MES

Co-Sell since April 2024

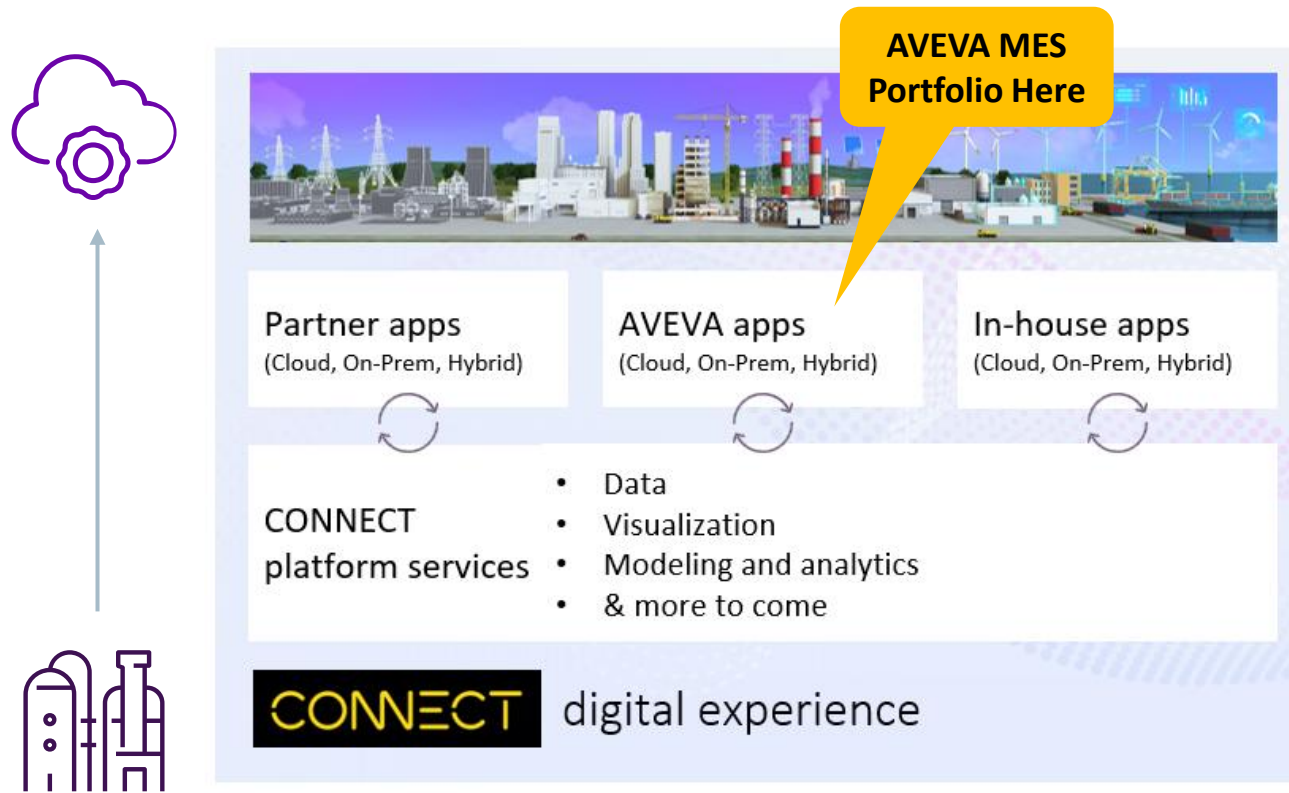
Product Manager – Jean-Pierre (JP) Caron

AVEVA Manufacturing Execution System, hybrid cloud



AVEVA MES Portfolio - Strategy & Investments

AVEVA MES Portfolio Aligning with Broader Portfolio Strategy



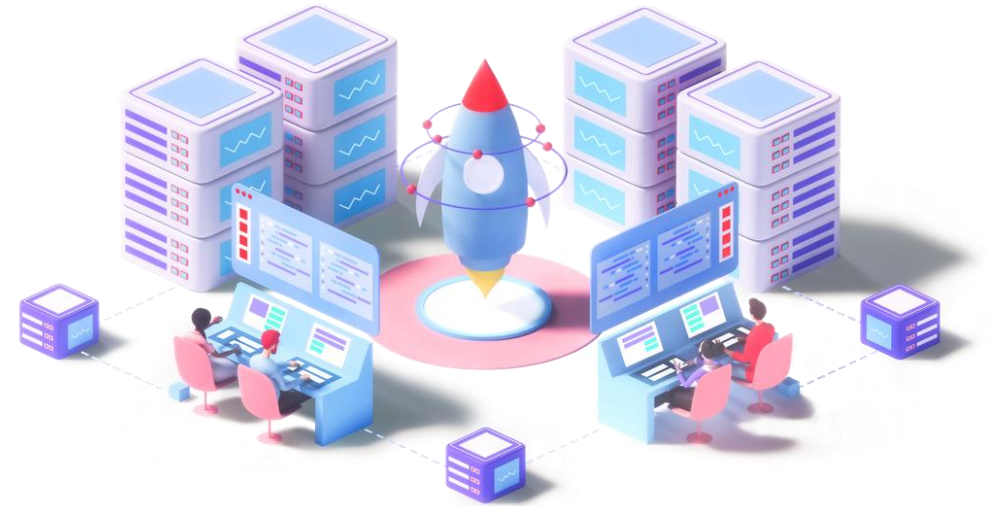
AVEVA MES Portfolio adopting CONNECT platform services to accelerate value creation. Currently focused on (2) major investment Initiatives:

- Transition on-premises AVEVA MES Portfolio Apps to Hybrid Cloud Apps
- Native Cloud Offering in CONNECT with MES Capabilities

AVEVA MES Portfolio - Strategy & Investments

Investment Initiative - Reimagine MES Capabilities as Next-Gen Native Cloud Offering in CONNECT

- Provide suite of **MES capabilities** in support of **production operations, inventory operations and quality operations** for hybrid and continuous production environments.
- Create **new, next-generation native MES cloud capabilities** in CONNECT.
- **Adopt and align with CONNECT application development experience** that will enable users to **create and manage MES app content that can be composed into seamless, end-to-end use cases with other AVEVA or 3rd party content** to address customer specific business objectives and outcomes.
- Security alignment in support of EU Cyber Resiliency Act



Events in CONNECT

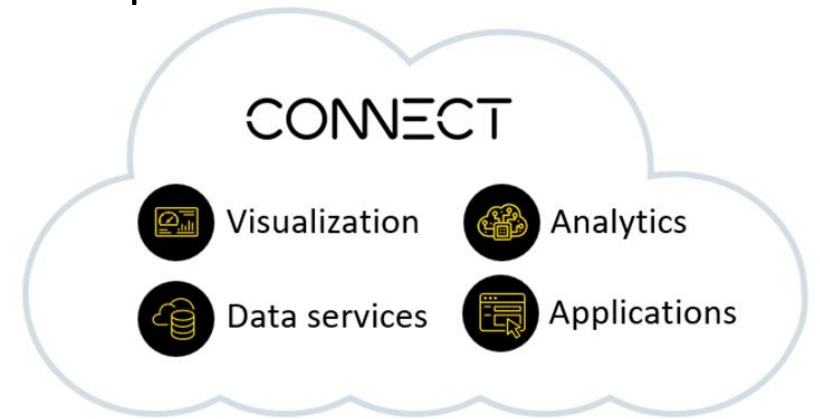
MES and Production Management Cloud Integration



CONNECT Integration

Cloud Integration – Publication of Event Data to CONNECT

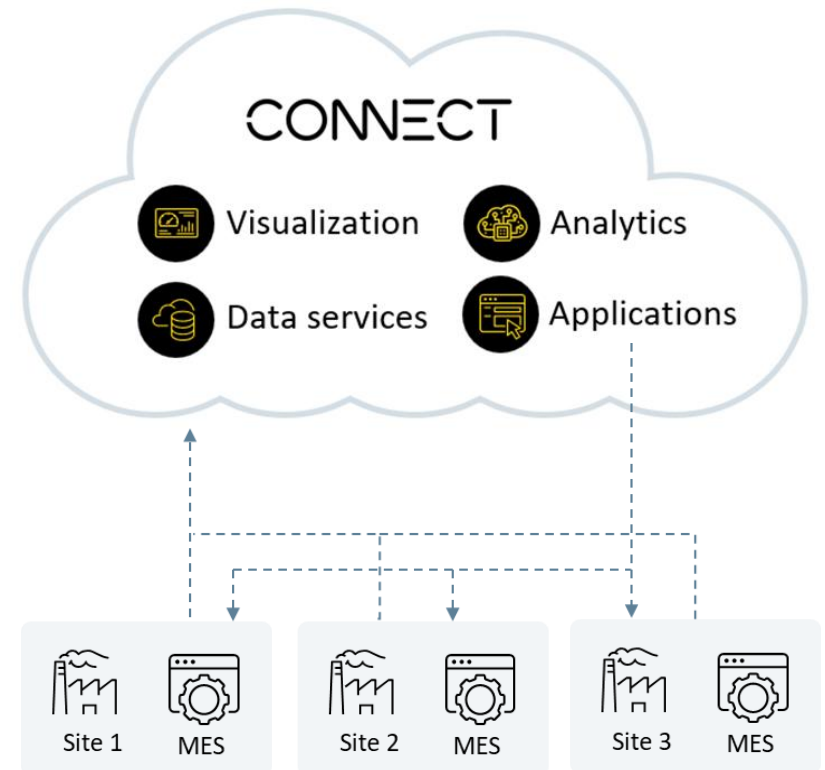
- MES Cloud Integration 8.0 (Included with MES 2023 R2) – Released September 2025
 - Support for MES 2020, 2023, and 2023 R2
 - Option to select which MES events (tables) to publish to CONNECT
 - On demand data retrieval directly from the MES database is the default behavior
 - Expansion of Model to Include
 - Material Consumption
 - Material Movements
 - Item Inventory
- MES Cloud Integration 8.1 (Independent release) – Released December 2025
 - Quality Samples and Results
 - Production Line Bottleneck History
- Production Management Cloud Integration – Released with 2024 version



CONNECT Integration

Cloud Integration – Publication of Event Data to CONNECT

- MES Cloud Integration 9.0 – Target Q3 2026
- Support for MES 2023, 2023 R2, and 2026
- Merge Events to CONNECT agent with MES Curation Service and publish to CONNECT with OMF 2.0
- Leverage new capabilities within CONNECT
- Asset Relationships
- Entity Relationships
(entity here refers to a definition such as an event, context data, asset, etc.)
- Expansion of the Model
- Job Specifications
- Custom tables
- Data Log – Under Consideration
- Production Management Cloud Integration follows



CONNECT Visualization of MES Event Data

MES Cloud Integration – Event Visualization

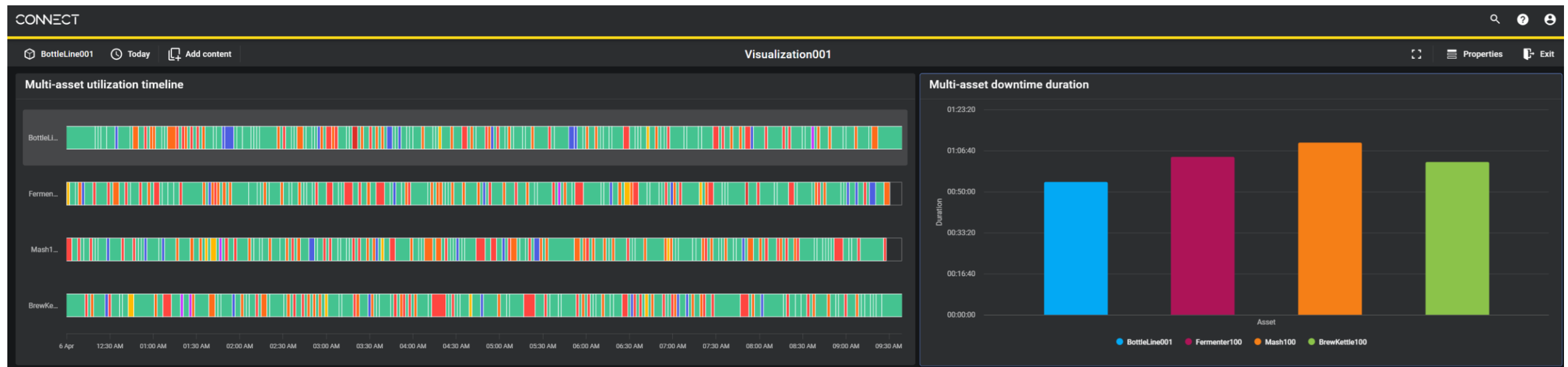
- Initial Set of Widgets (2024)
 - OEE KPI Gauge, Trend, and Analysis
 - Equipment Status
 - Utilization Trend
 - Utilization Analysis and Summary
- Initial Set of Widgets
 - Production Trend
 - Production Summary



CONNECT Visualization of MES Event Data

MES Cloud Integration – Event Visualization

- Utilization Timeline for Comparing Asset Status Over Time
- Multi-Asset KPI Bar Graph
 - OEE KPIs (OEE, Availability, Performance, Quality)
 - Downtime KPIs (Duration, Count)
 - Maintenance (MTTR, MTBF)



CONNECT Visualization Widgets for Event Visualization

Production Management Cloud Integration – Generic Event Visualization

- Highly flexible/configurable widgets for visualizing events from any source system
- Single Asset
- Aggregation type selection: Min, max, avg, count, sum

Choose

Create new

Graphics

Browse existing

Asset Efficiency

Card

Asset Information

Column Chart

Event Visualization

Gauge

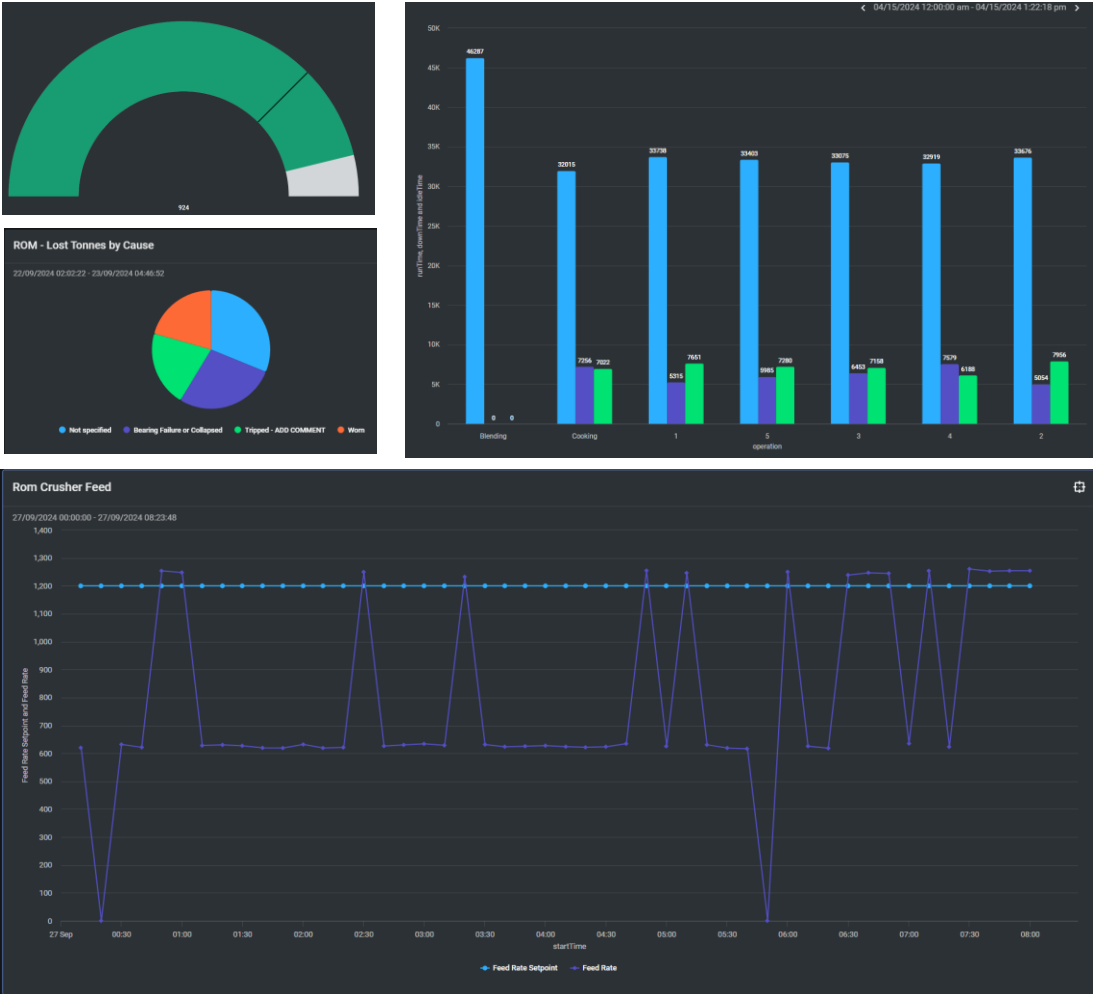
Other

Grid

Visualization

Line Chart

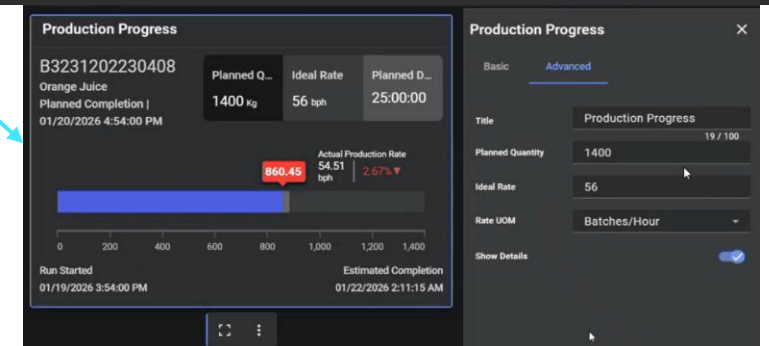
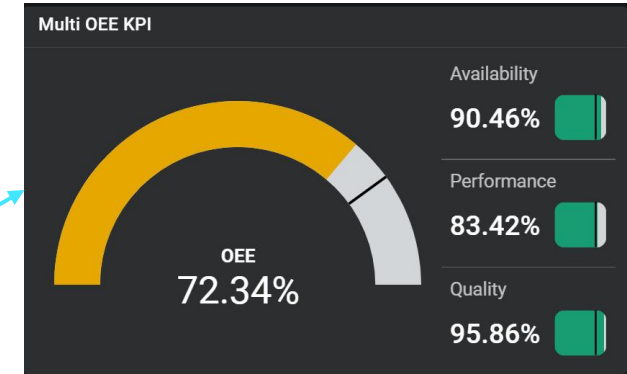
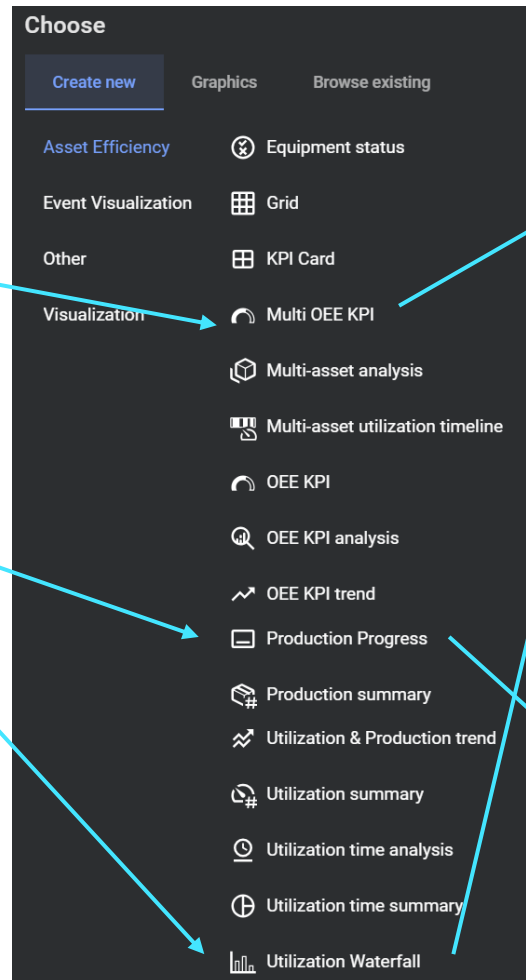
Pie Chart



CONNECT Visualization of MES Event Data

MES Cloud Integration – Event Visualization

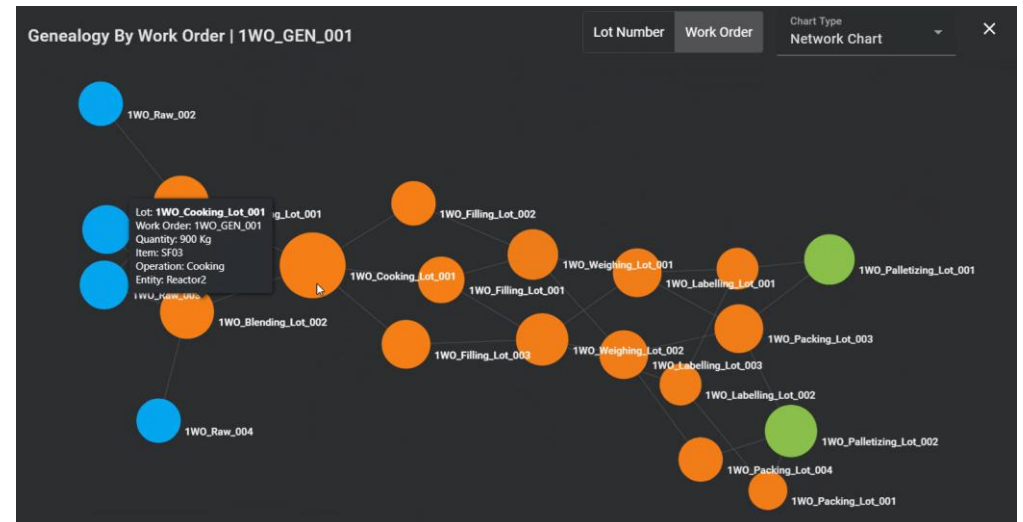
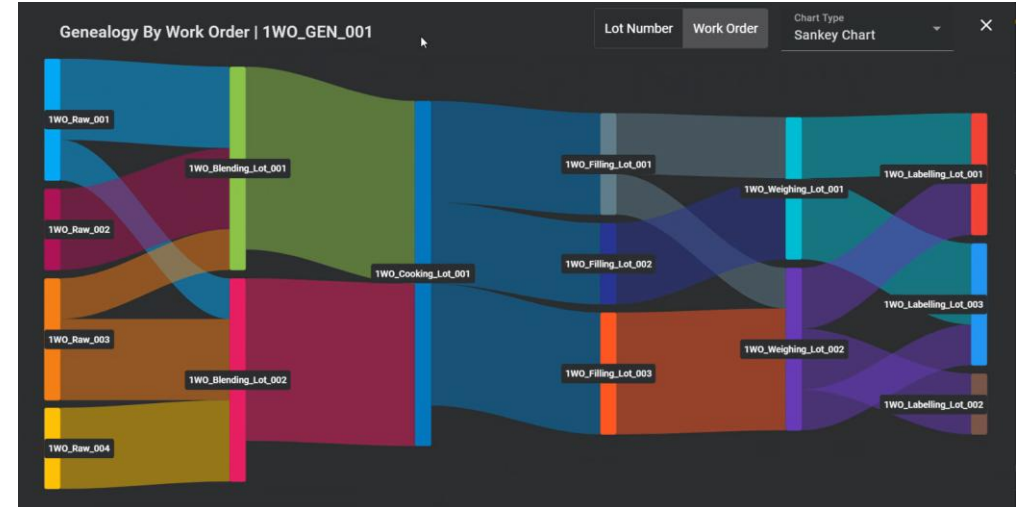
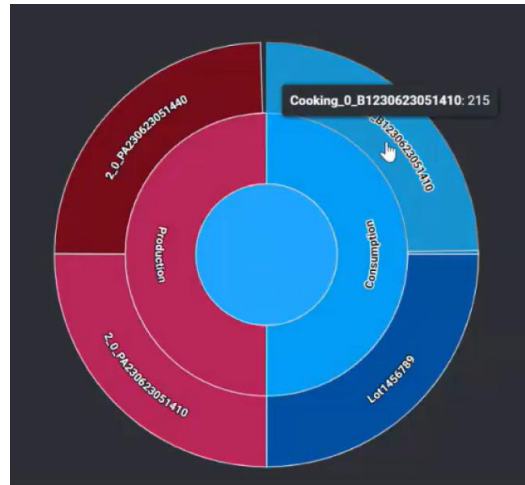
- Incremental additions (2025)
 - MES Event Grid
 - Multi-OEE KPI
 - Utilization Waterfall
 - KPI Card
 - Production Progress
- Platform Enhancements
 - Follow asset and time context
 - Building visualizations and layouts
 - Generic Event Visualization support



What's Next on CONNECT

Target for end of year 2026

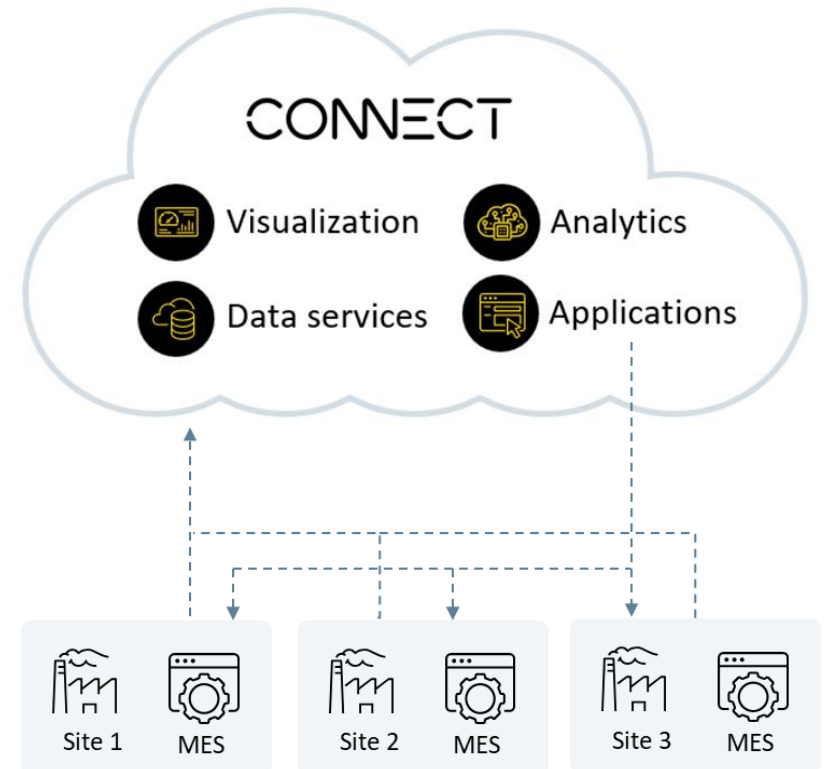
- MES Operation Widgets
 - Genealogy (Sankey, Network, and Sunburst)
 - Inventory
 - Grid analysis
- MES Quality Widgets
 - Sample view with Drill down to sample results



What's Next on CONNECT

Event capabilities

- Calculations
 - Define custom KPI calculations for batch and continuous processes
 - Roll-up by site/production line
- Event Editing
 - Modify or provide additional context to event data
 - Split / Merge events
- Historian and PI Event Data Publishing
- Visualize event data in context with time series data from historians
- Event support for AVEVA's Industrial AI Assistant and BYO LLM
- Harmonization of on-premises data and asset model (e.g. System Platform, MES, SAP, work order systems)



Product Roadmaps

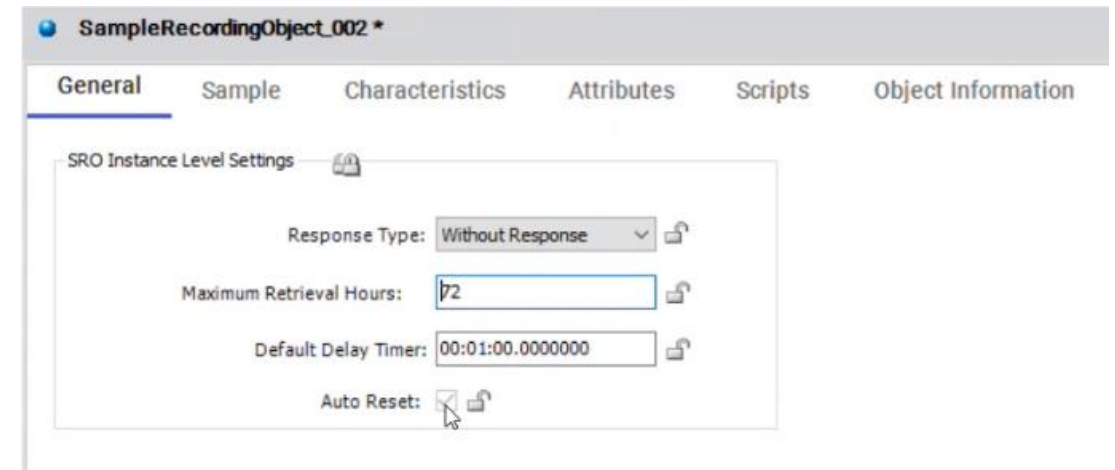
On-Premises Product Releases and Roadmaps



Manufacturing Execution System 2023 R2

Released – November 4, 2025

- Functionality Included
 - Inclusion of MES cloud integration component
 - Sample Recording Object Without Response Mode
 - AIM Single Sign On Redundancy
 - Security Enhancements
 - MES Object update to new App Object Toolkit
 - Removal of Supervisor and Data Editor including Supply Chain Connector
 - Hotfix Merges



Enterprise Integration 2023 R2 (7.1)

Released – January 2026

- Functionality Included
 - License Acquisition
 - Redundancy Support
 - OAuth 2.0 Support for Web API
 - Support for AIM redundant server
 - Security Enhancements
 - Hotfix Merges

The screenshot shows the 'Configurator' application window. The left sidebar contains a tree view with the following items: 'Common Platform' (expanded), 'License Mode', 'System Management Server', 'Federated Identity Provider', 'AVEVA Enterprise Licensing' (expanded), 'Secure', 'Select License Server', 'AVEVA System Monitor' (expanded), 'System Monitor Manager', 'Enterprise Integration' (expanded), 'Redundancy' (selected), 'El Configuration', 'MES' (expanded), 'Database Setup', 'DB/MW Communication', 'Middleware Proxy', 'Web Portal', and 'BI Gateway Reports'. The main panel displays the 'Redundancy' configuration settings. It includes a 'Server' field set to 'localhost', a 'Use Integrated Security' checkbox (checked), and fields for 'Username' and 'Password'. There are 'Connect' and 'Info' buttons. Below these are checkboxes for 'Make this a redundant server' (checked), 'Primary Server' (Server1), and 'Backup Server' (Server2). There are also fields for 'Number of Retries' (3) and 'Time Between Retries (s)' (30). At the bottom, there is a 'Configuration Messages' section with the following log: 'Info: Connecting to server...', 'Info: Connection to server was established successfully.', 'Info: Configuring redundancy', 'Info: Updating redundancy settings', and 'Info: Redundancy configuration complete for localhost. Make sure t...'. At the very bottom, there are buttons for 'Refresh', 'All Messages', 'Configure', and 'Close'.

Model Driven MES (MDM 7.0)

Released – March 2026

- Compatibility
 - System Platform 2023 R2 SP1 Patch 3+
 - Work Tasks 2023 R2
 - MES 2023 R2
- AIM Single Sign On Redundancy
- Update the Utilization form to only show the allowable reasons
- Hotfix and other enhancements

Enterprise Console

Work Order: EXAMPLE1, Item ID: SP01, Operation: Cooking, Sequence Number: 0, Status: READY, Req. Qty: 500.0000, Entity: Reactor1, Batch Size: 1, Start Qty: 500.0000, Req. Qty: 500.0000, Job Priority: 50, Last Start Time: , Due Date: , Est. Finish Time: 8/25/2019 12:39:03, Notes: , Close

Enterprise Console

Work Order: 5, Item ID: FIL-001, Operation: Filling, Sequence Number: 1, Status: CANCELED, Req. Qty: 500.00, Entity: Filler1, Batch Size: 1, Start Qty: 500, Req. Qty: 500, Job Priority: 50, Last Start Time: 6/7/2018 04:00:00, Due Date: 6/28/2018 08:00:00, Est. Finish Time: 7/11/2018 08:00:00, Notes: , Close

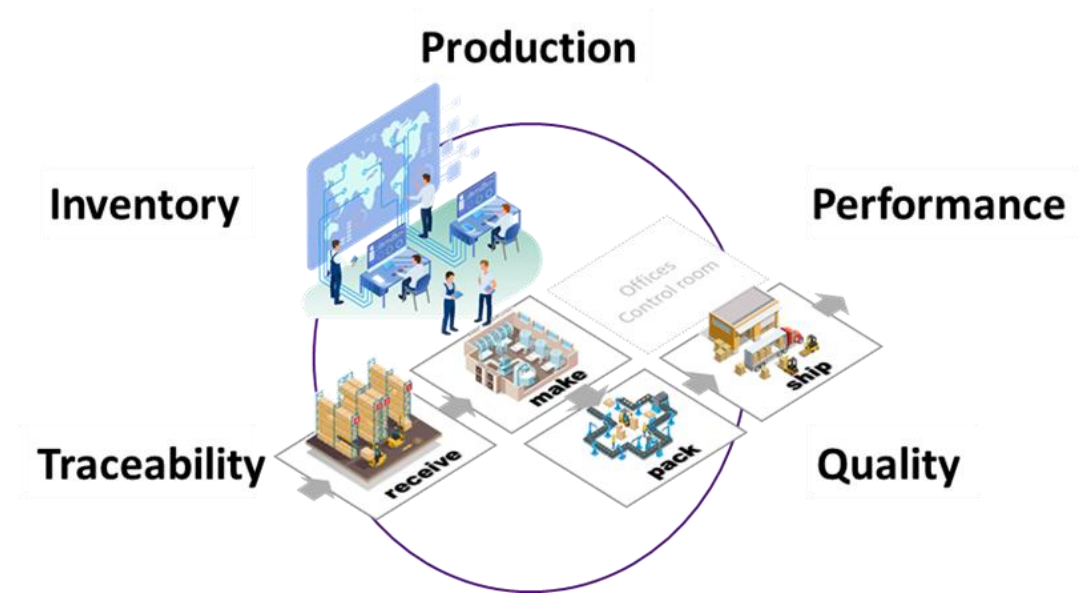
Released – April 2026

- Work Tasks Connector and Extension for MES
- New version for Work Tasks 2023 R2 and MES 2023 R2

Manufacturing Execution System 2026

Target release – January 2027

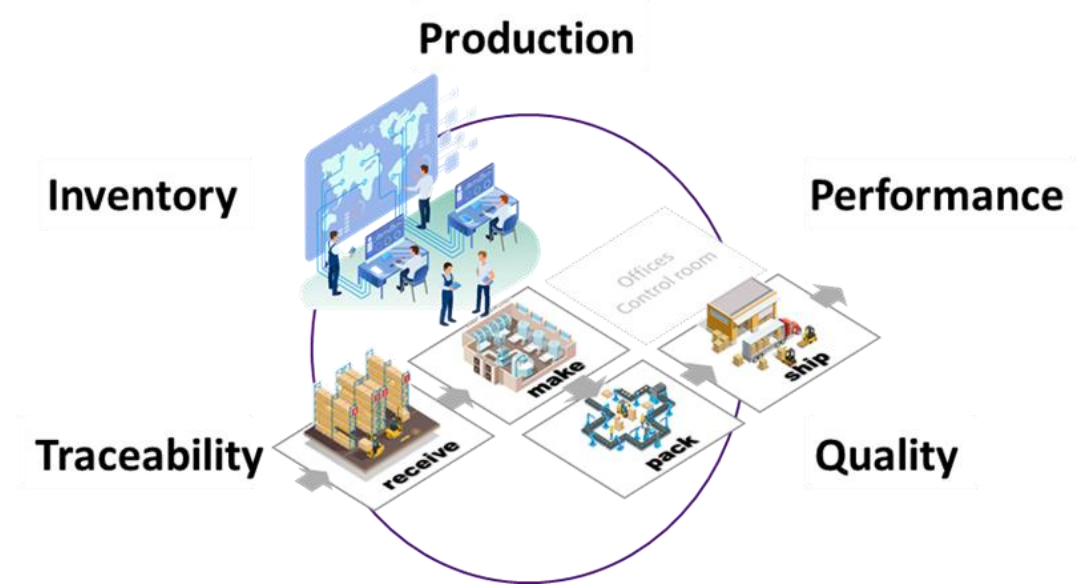
- Functionality Planned
 - Further Security Enhancements and Integration with AVEVA Identity Manager (AIM)
 - Connected Experience – Authentication with CONNECT through AIM
 - No known Vulnerabilities to Report for EU Cyber Resiliency Act (CRA)
 - MES Web Widgets to Replace MES .Net Controls – Under discussion
 - Customer Requested Enhancements
 - Hotfix Merges
- BI Gateway Update Planned for July 2026
 - Used for MES Reporting
 - Verify with MES 2023 R2 and MES 2026



Manufacturing Execution System 2026 R2

Target release – Q3 2027

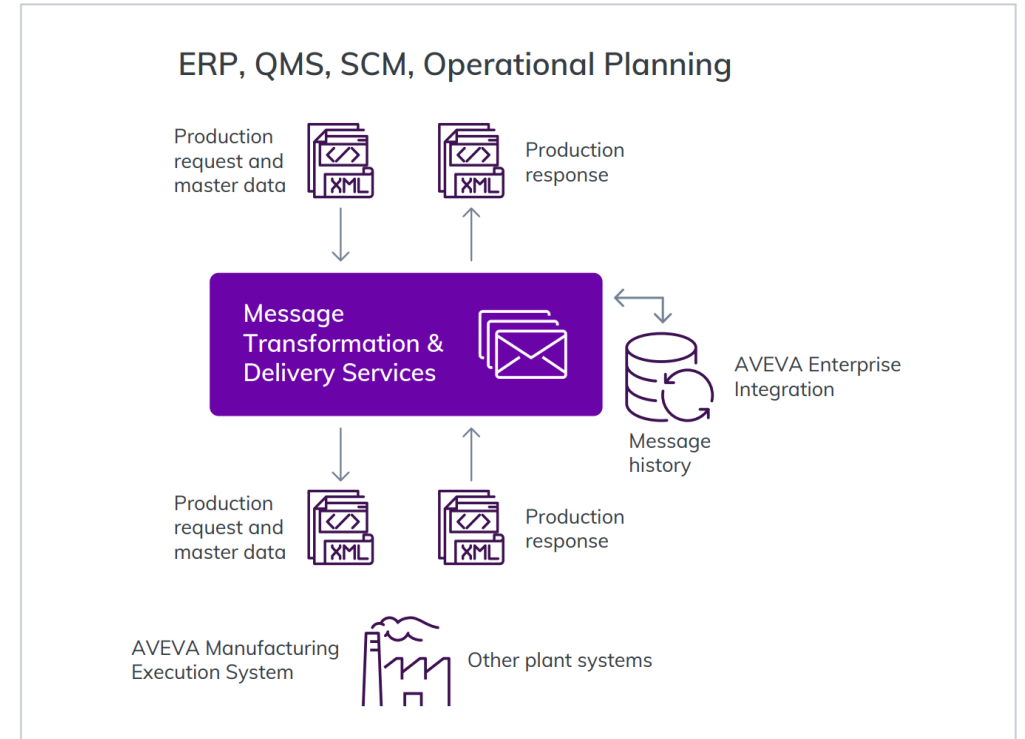
- Functionality Planned
 - EU Cyber Resiliency Act (CRA) Compliant Version
 - Further Security Enhancements and Integration with AVEVA Identity Manager (AIM)
 - Connected Experience – Authentication with CONNECT through AIM
 - MES Web Widgets to Replace MES .Net Controls
 - Customer Requested Enhancements
 - Hotfix Merges
- Long-Term Servicing Lifecycle



Enterprise Integration

Additional Releases

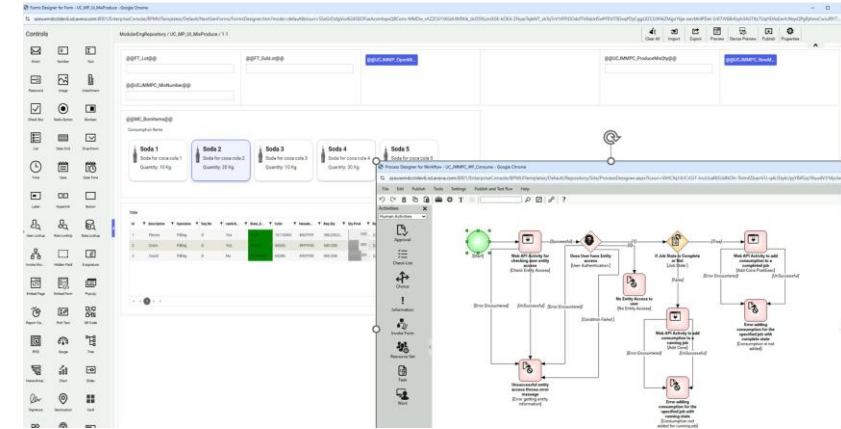
- SAP Example Content to Import
- Integration with CONNECT
 - Collection of Location Execution Data and Timing
 - Publish along with MES data
 - Leverage existing event widgets
- EI 2026 in support of MES 2026 (February 2027)
- EI 2026 R2 in support of MES 2026 R2 (Q3\Q4 2027)



AVEVA™ Work Tasks 2026

Target Release – Q4 2026

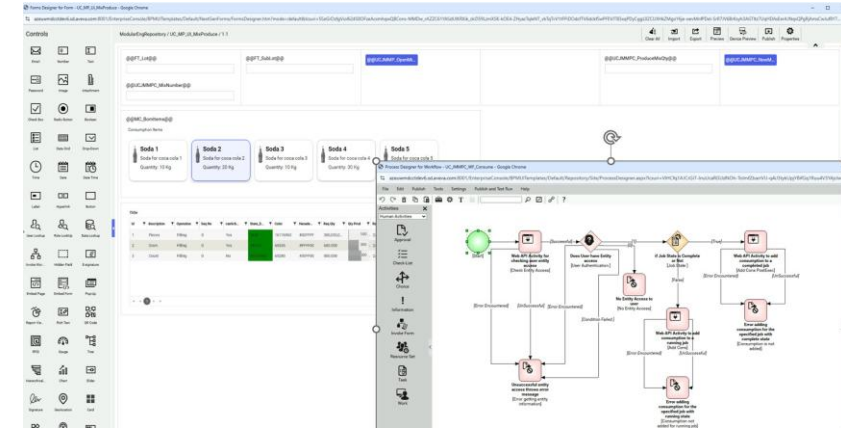
- CONNECT Authentication support (and thereby 3rd party auth0 providers)
- Workflow Web API interface
- Service hardening, Scripting hardening and Session management improvements
- Security updates in support of EU CRA
- Work Tasks Pro (Mobile App) migration to latest Microsoft Platform
- Intune support for Work Tasks Pro
- Improved DB activity/stored proc parameter mapping
- Operating System
 - Drop support for Windows Server 2016
- SQL Server
 - Minimum version supported is SQL Server 2017
- System platform 2026 compatibility
- Deprecations for items like SMS, older scripting languages, OPC UA and SOA



AVEVA™ Work Tasks 2026 R2

Target Release – Q3 2027

- EU Cyber Resiliency Act (CRA) Compliant Version
- CONNECT Authentication support (and thereby 3rd party auth0 providers)
- Work Tasks Pro (Mobile App) migration to latest Microsoft Platform
- Intune support for Work Tasks Pro
- System platform 2026 R2 compatibility
- Deprecations for items like SMS, older scripting languages, OPC UA and SOA



Batch offerings 2026

Batch Management and Recipe Management

Batch Management 2026 – Target Q3 2026

- Services hardening
- Ability to see logic behind inactive transitions
- Recipe edit Audit trail improvements
- Hotfix-Rollups
- Cybersecurity updates (CRA to be determined)
- System Platform 2026 compatibility
- Operating System
 - Drop support for Windows Server 2016
- SQL Server
 - Minimum version supported is SQL Server 2017

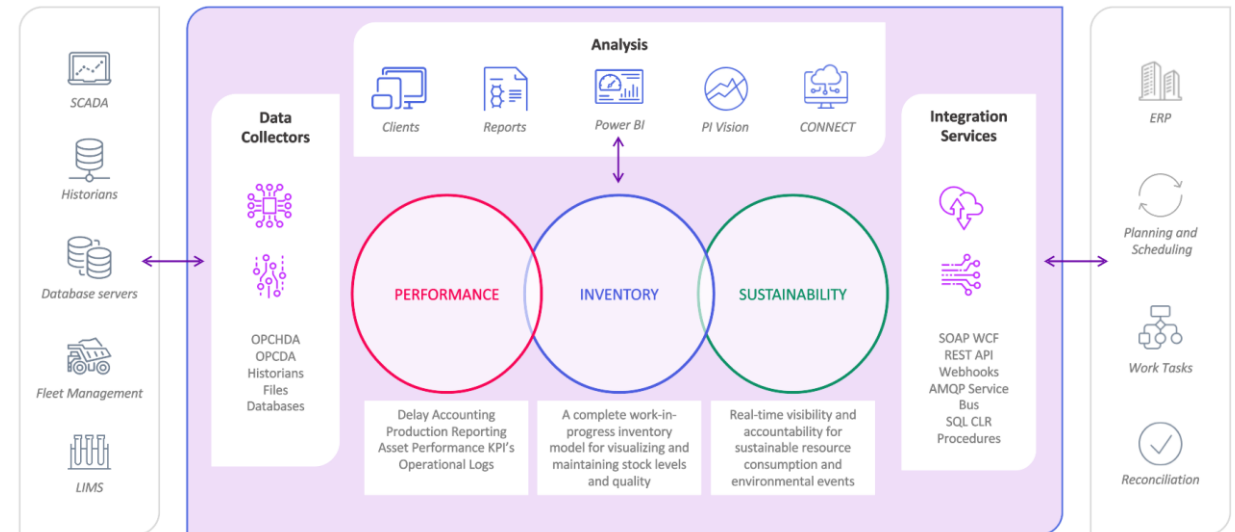
Recipe Management 2026 – Target Q2 2027

- Service hardening
- Adopt iDatav4 for performance
- Hotfix-Rollups
- Security updates in support of EU CRA
- System Platform 2026 compatibility
- Operating System
 - Drop support for Windows Server 2016
- SQL Server
 - Minimum version supported is SQL Server 2017

AVEVA Production Management 2025 (9.2)

Released - November 12, 2025

- Native PI Connector
 - Allows native connection to PI Servers
 - Streamlined mechanism to convert existing OPHDA connectors to PI connectors
- Inventory Enhancements
 - Performance improvements
- Configuration
 - Configurable timeout for CLR stored procedures



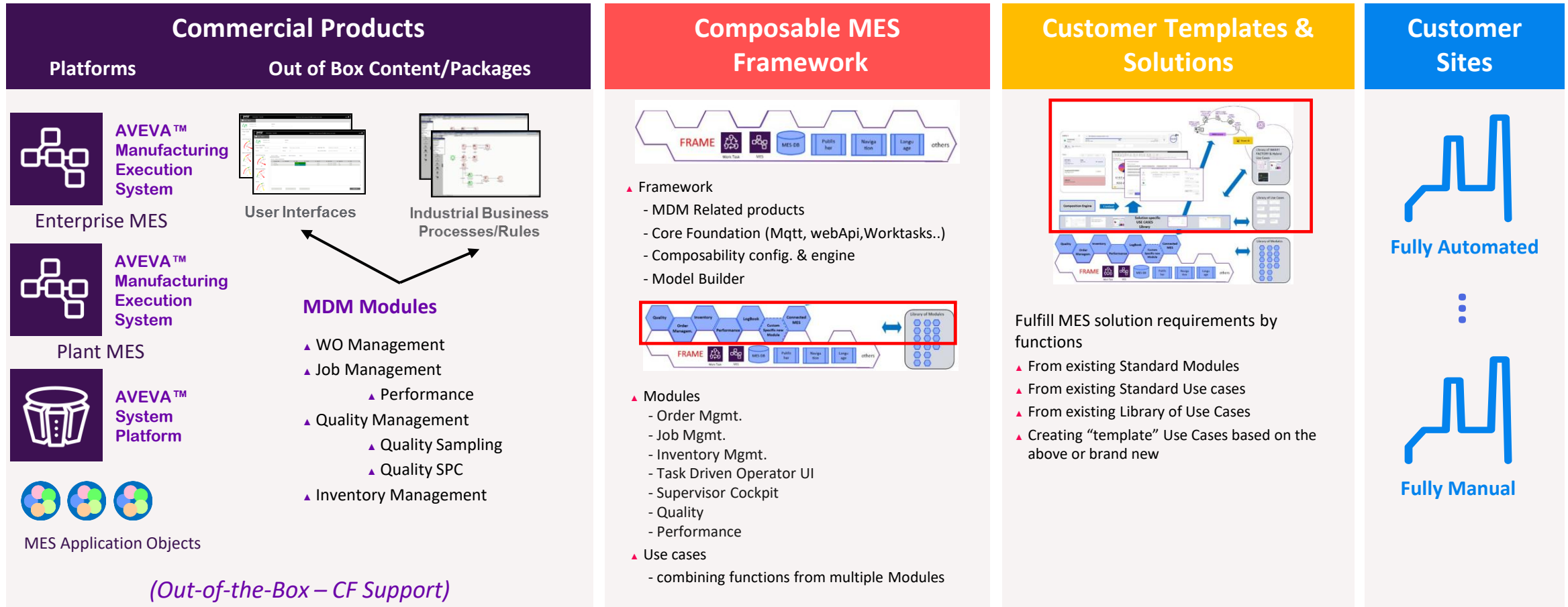
AVEVA Production Management 2027

Target Release – Q1 2027

- EU Cyber Resiliency Act (CRA) Compliant Version (Tentative)
- UI scaling support
- PI connector enhancements
- New Production Management in CONNECT capabilities
 - New Production Management to CONNECT agent replaces existing Events to CONNECT agent
 - Enables selective publishing of reporting points and assets to CONNECT
 - Publishing of additional modules
 - Planning, Process Quality, Knowledge

Model Driven MES Approach

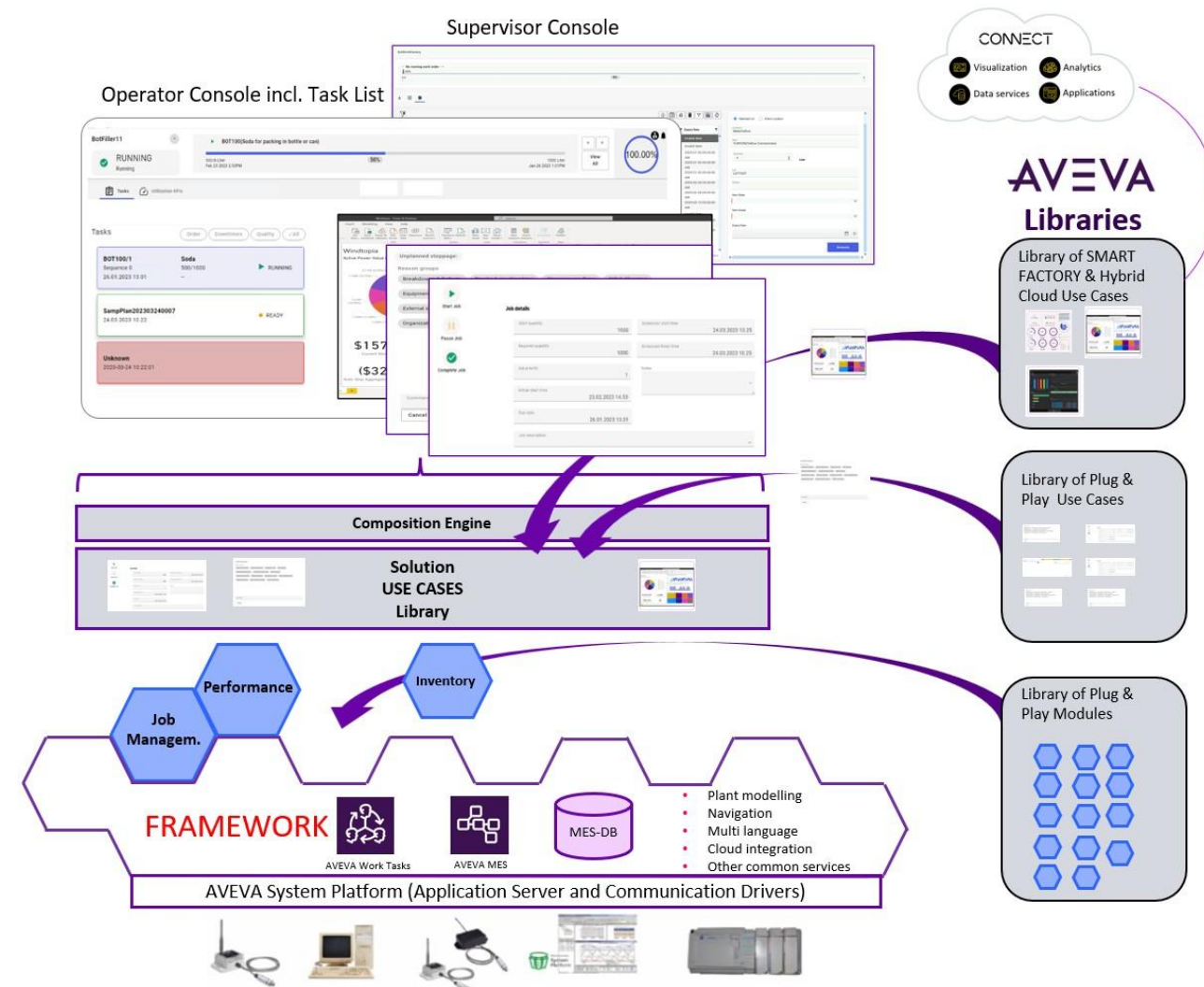
Delivery Approach for Model-Driven MES Solutions



Composable MES

Core Building blocks

- **FRAMEWORK:** Framework of AVEVA MES application services.
- **Task Driven OPERATOR CONSOLE:** A composable task driven frontline operator user interface for job execution on workstations/machines.
- **SUPERVISOR CONSOLE:** A composable supervisor user interface for access to role- based information views and MES functionality.
- **MODULES:** Independent subsets of MES solution functionality and UI components, which can be individually and incrementally deployed.
- **Solution Use CASE Library:** Operator task and supervisor use cases locally deployed, as required for the MES solution scope
- **Composition Engine:** manages and provides work-cell/machine specific and role-based access according to composition definitions



AVEVA Composable Model-Driven MES – Current Status

Platform Readiness: Version 2.0 *

- Order Management
- Job Management & Execution
- Step Execution
- Performance Management
- Utilization & KPI Dashboards
- Inventory Management & Execution
- Hierarchical Inventory
- Quality Management & Execution
- Traceability
- Material Reception
- Andon/Call for Help
- Work Instruction
- UI Sequence
- SPC Module
- Multisite Data Structure
- Weighing Plan

Governance update

- First Level Support via GCS
- Training: “Advanced MD MES” replaced by “Advanced MD and Composable MES Training”
- Partner Enablement via Training/Documents/Videos
- Documents on [AVEVA™ Documentation](#)
- Partner Enabled Demo Package (Nick Nicholas)
- Marketing Material update on PACE
- Installation Packages via Teams Channel

Delivery Update (known to us)

- Several Partner Projects, individually supported by AVEVA
- 13 active AVEVA Prime Projects

*Version 1.0 supports MES 2023 Version 1.03 available October 2025 Version 2.0 supports MES 2023 R2 (Released in Jan 2026)

AVEVA Composable MES –Roadmap – 2.0

- SPC-Chart ✓
 - Multisite Data Structure ✓
 - UI for Sequence ✓
 - Weighing Plan PoC ✓
 - Weighing Scale UI (Standard Definition) ✓
 - Weigh & Dispense ✓
 - Revision of the UI for Composition Tables ✓

➤ Job Split (manual) ✓
 - Job History Screen ✓
 - Job Execution: Split down automatically the Job amount to executable amounts on the entity

➤ Consumption Declaration Post Execution
 - Recipe Management – Basic Recipe Execution
 - Job sequencing board
 - Job Sequencing & Entity Assignment
 - Assigned Inventory to consumed materials
 - Automatic Transfer Request creation
 - Job Specification Management
 - Recipe Management
 - Material Forecast

➤ Movable Entities
 - Card Navigation

➤ TO-Management ✓
 - Inventory Staging ✓

➤ Improvements on ANDON (additional escalation rules & ANDON-Type „MES“) ✓

Use Cases

CY25	CY26		
Q4	Q1	Q2	Q3

- **October 2025 Release (1.03):** ✓
 - Move to Service Pack Approach
 - Enhanced Date Formatting in Kendo Grid
 - Further Alignment with updated Coding Standards
 - Removal of depreciated Code
 - Further Widget Standardization
 - Improved logging and error-handling
 - Tree View Widget improvements

➤ **December 2025 Release (2.0):** ✓
 - Support of MES 2023 R2 and WT 2023R2SP1
 - Standardized Icon Usage Across All Modules and Centralized Icon Configuration via FT Configuration
 - Job Split functionality in Job Management Module
 - Operator Cockpit: Entity Navigation via Tree-View
 - Transfer UTC date to local browser

➤ **April 2026 Release (2.01)** ✓
 - Composable Column Content of Grids
 - Lot Assignment (Create a Standard of usage)
 - Corrections on Inventory Management
 - CMES on Mobile (Transfer Order Mngmt only)
 - Improvements on the UI-Level: Collabsable Task List
 - CMES on Mobile
 - Replacement of CommandBar-Widget by the ToolBar-Widget
 - TO Management Module
 - Installer for packages

➤ **June 2026 Release:**
 - Process Navigation
 - Sourcing Rule Configuration
 - Recipe Management – Recipe Configuration (Authoring)
 - Hierarchical Navigation

Releases



Exciting, modern &
engaging experience

5 key zones: CONNECT, operate & optimize, design & build, industrial sustainability, experiential zone (hands-on activities)

45+ sponsor and exhibitor booths

CONNECT ecosystem partner kiosk

AVEVA & Partner Showcase sessions

Lightning Zone sessions

Guided tours by industry

Game and leisure areas



INNOVATION
ZONE

Visit Us!

Stop by this booth in the innovation zone for demos and additional information:

Booth OPE2 Manage Manufacturing Execution and Production Operations in real-time

Demos:

- AVEVA Manufacturing Execution System
- AVEVA Production Management

Additional Expertise:

- AVEVA Batch Management
- AVEVA Recipe Management
- AVEVA Work Tasks
- Composable model driven MES



Sessions of Interest

**Breakout: AVEVA Hybrid MES:
Optimize Uptime, Quality and
Productivity at scale with
CONNECT and Industrial AI**

Wednesday, May 20 @ 10:30
Room L2 Amber 2

**Breakout: AVEVA's
Manufacturing Execution
Systems portfolio roadmap**

Wednesday, May 20 @ 15:30
Room L2 Brown 2

**Breakout: AVEVA hybrid MES:
Smarter manufacturing with
CONNECT Visualization**

Thursday, May 21 @ 11:15
Room L2 Brown 1

**Roundtable: Scaling smart
manufacturing with MES,
what works and what not**

Tuesday, May 19 @ 15:45
Room L2 Amber 6 - "The Hub"

**Spotlight: Composable MES
2.0 Content release update
and outlook**

Wednesday, May 20 @ 14:00
Room L0 IZ Spotlight Lounge

**AVEVA hybrid MES : globally
distributed MES data
visualization and sharing**

Thursday, May 21 @ 9:30
CONNECT Lounge

BREAKOUTS & ROUNDTABLES

AVEVA

Sessions of Interest

AI Esayi's Path to Sustainable Manufacturing

Tuesday, May 19 @ 17:30

Room L2 Amber 4

ofi: Unlocking value with its scalable and flexible digital strategy

Wednesday, May 20 @ 9:00

Room L2 Amber 1

Vianode: Game-changing tech - from automation to industrial AI

Wednesday, May 20 @ 14:30

Room L2 Brown 3

Norsk Kylling - Worlds most sustainable poultry processing plant

Wednesday, May 20 @ 15:30

Room L2 Amber 1



**CUSTOMER
BREAKOUTS**

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!

This presentation may include predictions, estimates, intentions, beliefs and other statements that are or may be construed as being forward-looking. While these forward-looking statements represent our current judgment on what the future holds, they are subject to risks and uncertainties that could result in actual outcomes differing materially from those projected in these statements. No statement contained herein constitutes a commitment by AVEVA to perform any particular action or to deliver any particular product or product features. Readers are cautioned not to place undue reliance on these forward-looking statements, which reflect our opinions only as of the date of this presentation.

The Company shall not be obliged to disclose any revision to these forward-looking statements to reflect events or circumstances occurring after the date on which they are made or to reflect the occurrence of future events.

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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.

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