AVEVA 2023 R2 Release Highlights

AVEVA System Platform 2023 R2

- Supports AVEVA Connect sign-on - Compatibility and integration with AVEVA Connect when using under an AVEVA Operations Control subscription.
- New OMI web client - Brings the power of the OMI experience to web, delivering a scalable and efficient browser interface for real-time operations management.
- Modernization of IDE tree views - Improved tree views in the IDE added with search box capabilities.
- EmbedContent() - Dynamically embeds Industrial graphics within an Industrial graphic in OMI desktop client during runtime.
- Internationalized string translation - Translatable string that supports multilingual functionality.
- LATCH alarm state - Optional alarm state that requires Acknowledged, RTN alarms to be dismissed before disappearing from the screen.
- Reduction in the use of DCOM - The dependency on DCOM for communication paths between platforms has been replaced with gRPC, reducing the DCOM footprint and improving overall security.
- Out of sequence data handling - Streams out of sequence data directly to the Historian while maintaining the integrity of the latest data in System Platform and OMI.
- Automatically configure buffered attributes - Allows users to configure a galaxy to automatically enable buffering for all IO attributes.
- AVEVA System Platform deployment guide - Online documentation guide covering various aspects, considerations and recommended practices when implementing System Platform.
- Security deployment guide - Online documentation guide describing security considerations and recommendations for implementing System Platform.
- Cybersecurity enrichments

AVEVA Plant SCADA 2023 R2

- Double point status alarms - New alarm type, based on multi-digital alarm, driven via a single integer tag. Up to 8 states can be defined with custom name. State names appear in SOE/alarm summary, process analyst. Supports DRI based drivers only at this time.
- Equipment update speeds - Tag/equipment generation and update speed improvement showed immense speed improvements over previous releases.
- Kernel access now supports running as a service - Users can open the kernel of any process via runtime manager and will be prompted for credentials. "Kernel user" has been deprecated and a new "Kernel access" property has been added to the role definition to control access.

- Unique equipment ID's - A globally unique identifier (GUID) can be applied to any equipment and equipment types, which can be used for consistent identification for integration with future software releases.
- New installer technology for an improved installation experience - A new modern installation framework that simplifies the selection and installation of required components. Supports silent install and modify install properties.
- Support for 64-bit Microsoft Excel - .Project DBF add-on tool has been updated to support 64-bit Excel to mass edit Equipment, Tags, Alarms, Trends or any backend database file in the system.
- New online documentation system - This new browser-based tool means documentation for Plant SCADA is ready for distribution on emerging documentation platforms, including cloud-based environments. https://docs.AVEVA.com
- Cybersecurity enrichment

AVEVA InTouch HMI 2023 R2

- Supports AVEVA Connect sign-on - Manage InTouch HMI users through AVEVA Connect, when using under an AVEVA Operations Control subscription.
- User Defined Types (UDT) structure support - Support for UDTs allowing user to create their own structures to match field equipment.
- SVG import to industrial graphics - Import and convert SVG to industrial graphic objects. New objects will keep their identity and grouping. Objects behave as regular industrial graphics and can have animations. SVG is also supported as an image type.
- Create InTouch tags from OPC UA Server - Simply the tag and application development workflow from OPC UA data source. Select item(s) to drag and drop to new Tag Hierarchy pane, while mirroring OPC UA folder structure.
- Alarm latching and alarm dismiss - Optional LATCH alarm state: acknowledged alarms require dismissal to disappear from the screen.
- Improvement to the graphic editor - Drag and drop tag from tag hierarchy onto canvas, show graphic element and applicable animation.
- Credentials manager - Option to secure specific standalone and managed InTouch HMI applications by securely maintaining credentials to authenticate user access.
- InTouch HMI demo license - Extended the number of tags to 64 (from 32 before) that InTouch HMI supports while running in demo mode, without requiring a license.

AVEVA Edge HMI 2023 R2

- Python scripting support - Support a common, popular, platform agnostic scripting language for IoTView (Linux Runtime), SCADA (Windows Runtime) and IDE (Editor).
- Standard driver sheets (IoT View) - Ported support for Standard Driver sheets (in addition to Main Driver sheets) for IoT View for more flexibility and control.
- Tag integration (IoT View) - Ported support for Tag Integration to IoT View for Drivers and OPC.

- Mobile access performance (IoT View) - Improved open screen performance on small footprint devices.
- Consume industrial graphic libraries - Keep compatibility and coexistence with System Platform 2023 R2.
- MQTT support structures - Support hierarchical structure for the MQTT Sparkplug devices.
- COSYS driver - Driver encryption and certificate management.
- History lifetime days - Ported automatic trend log "house keeping" so you don't fill up your hard drive or database.
- Grid object pagination optimization - Improved Grid Object performance by adding pagination support.
- Cybersecurity enrichments

AVEVA Historian 2023 R2

- Supports AVEVA Connect sign-on - Common, simplified logins across OMI and Historian. Centralized user authorization through AVEVA Connect for AVEVA Operations Control users.
- Multi-lingual tags - Define descriptions & other meta in multiple languages. Show labels in the best language based on user preference.
- Ad hoc expressions in trend - Create more meaningful trend charts with calculated pens.
- Expanded functions - New functions added to ad hoc expressions make results simpler & more valuable.
- Alarm grid filter / sort - Browser-based alarm history supports more filtering & sorting options.
- Web / Excel integration - Easily transition from Web charts to detailed analysis in Excel.
- "New Look" for web - Updated web interface that is more powerful & easier to use.
- Export / import web content - Include saved charts in CSV configuration import/export.
- HTTPS-based communications - Internal Historian network communication is more secure & easily integrated with HTTP proxies.
- Live data via "iData" - View latest historical values as the "live" values on OMI displays.

AVEVA Reports for Operations 2023 R2

- New driver: PI Event Frames - This rounds out the full support of PI data connectors, adding to the extensive list including:
  - Asset Framework (SDK v2018 SP3)
  - Asset Framework historical values
  - Asset Framework real-time values
  - "classic" historical values
  - Web API historical values
- Batch management support of nested batches (ISA S88 compliance) - You can now configure and report on multiple levels of nested batches.
- Driver type: Batch - We now have a Batch driver type to connect to data sources to collect batch-specific data.

AVEVA System Monitor 1.5

- Machine grouping, including nested grouping - Users have the ability to create custom groups for monitoring machines, allowing them to apply distinct sets of rules with varying parameters to different machines. This is accomplished by grouping the machines together and applying rules at the group level. Consequently, the rules are applied to the entire group, and each machine within the group inherits all of the associated rules.
- Multiple conditions for each rule - For each rule, multiple conditions can be configured to trigger new alerts when an unhealthy status is detected. A rule can incorporate a combination and multiple instances of Value conditions, ROC conditions, and Deviation conditions.
- Log Filter based on component and/or text string - Alerts can be generated when specific strings are detected within specified OCMC logger components.
- Multiple instances of each rule - Rules can be used multiple times
- Configuration of agent optional in configurator - User can disable System Monitor agent in the Configurator.
- Support for .NET 6.0 core - Support for .NET core
- Alert search functionality - The ability to search through alerts inside System Monitor
- Cybersecurity enrichments

Vision AI Assistant 2023

- New skill type: User defined pipeline - User Defined Pipeline (UDP) model is the most sophisticated skill type available with Vision AI Assistant. Self-specify a series of automated steps in a chain for pre-processing and transformation of desired images. The input image travels through this series of defined blocks, transformations, or actions (referred to as a pipeline), to achieve an end result. The User Defined Pipeline skill comes with a standard toolbox of capabilities which can be used as elements on a canvas for users to assemble their pipeline. Includes a new UI for user experience to interact and design their pipelines. Highly flexible and powerful for a range of use cases: measuring dimensions, image isolation, determining color, finding defects, and more.
- AVEVA Enterprise Licensing support - This will enable license distribution, usage monitoring, and future enhancements.
- Improved integration with AVEVA Insight
- Performance improvements - Near real-time API for alerts.
- User experience and usability improvements - Improved the property window, helps for configuring properties and validations. New icons on each UDP skill block. Path of assets shown in skill property. Anomaly preview organizes good/bad images with clear positive and negative labels. Asset dropdown in skill property page.
- Cybersecurity improvements

AVEVA Insight

- New "kiosk" mode in "New Experience" - Allows you to set up a device to display pertinent information for an extended period of time without forcing an interactive login every few days.

- New "Publisher" role - You can assign the new Publisher role to non-administrator users. This role allows users to create new data sources and publish data to AVEVA Insight using AVEVA Insight Publisher.
- Retiring "Classic" - The "classic look" for AVEVA Insight is being retired.

AVEVA Teamwork

- "Call for Help" renamed to "Issues" - The feature within Teamwork previously known as "call for help" was renamed, however all functions remain.
- New filtering - Users will be able to quickly filter through their issues with new time-based shortcuts. This addition will allow users to minimize any distractions and focus on what has happened since their last shift.
- Tagging colleagues directly from Issues - You can now directly tag users from a new Issue. Streamlining the user experience and allowing direct contact with the person. This change will increase user engagement on Issues and accelerate the problem-solving process.
- Add assignee to Issues (Issues ownership) - The creator of an issue, will have the option to assign an owner to an issue. Giving concerned users accountability and visibility on the issue.
- New roles - User manager, structure manager, & analytics manager are added to increase role granularity. Making it able to delegate some administrative responsibilities without granting full Admin access to another User.
- CFR compliant E-signatures in forms - E-signatures can now be added by using a simple drop-down menu within forms. Allowing people to sign Forms virtually, with an added layer of security and confidence in the authenticity and legality of the signature.
- Deviations to issues - Convert deviations to issues automatically within form. It'll include any photos, videos, or provided comments and the location is set to where the form is being completed.
- Forms & location dashboard - View your available forms and locations within one centralized location.
- iOS and notification enhancements - Notifications now contain summary information regarding the issue. Cutting the clutter and only seeing everything you want by focusing your notifications.

AVEVA Development Studio

- Extensions of applications - Added extension tab enabling users to view and download all available extensions for each product
- Automatic enablement of Insight - Users can now enable and launch their Insight solutions that are bundled with their Operations Control package(s)
- Integration Studio added to entitlements - Users can now view information and launch Integration Studio from Development Studio
- Teamwork added to entitlements - Users can now launch their Teamwork solution directly from Development Studio. They will also be able to configure the system to connect to other solutions for development purposes.

- Added licensing tile to home screen - Users can now access a direct link to the Licensing page and view information on how to obtain licenses for their Operations Control package(s)
- Updated UI/UX

AVEVA Integration Studio

- Node security updates - All nodes within Integration Studio were refreshed to include all OS security updates
- Multi-instance support - Integration Studio can now be enabled within Connect folders. Each instance is independent of one another.
- Named user model - Users that are assigned to Integration Studio can now access the system without having to assign seats to them.
- System suite enhancement: patch support - System suites can now be modified to include things such as patches to them without having to create new versions. Existing instances of these system suites will not be affected. New ones will include the updates.
- Custom system suite management - Administrators in accounts now have the ability to remove unused custom system suites.