

BROCHURE

AVEVA™ Plant SCADA 2026: What's new?

AVEVA Plant SCADA 2026 offers a host of new capabilities that reduce the engineering effort required to build applications that boost usability, control, and operational flexibility.

Driven by real customer needs, these feature investments enable architects to deploy unified operation center (UOC) or command and control center (CCC) solutions. The new version of AVEVA Plant SCADA also provides enhanced APIs (CtAPI) to give developers more precise control when building robust automation that leverages new AI capabilities.

Native store-and-forward data replication for alarms and trends now provides the necessary Plant SCADA equipment context directly to AVEVA™ Historian. The new Historian Agent then replicates this data into CONNECT data services, unlocking more capabilities for engineers. Every AVEVA Plant SCADA license includes AVEVA Historian and AVEVA™ Reports for Operations, providing operators with enhanced data analysis and reporting.

AVEVA

Direct integration and connectivity for AVEVA™ Unified Operations Center

On-premises unified operations center

The solution provides a native, secure, high-speed, redundant connection for transferring data from AVEVA Plant SCADA to AVEVA™ System Platform. The solution exposes AVEVA Plant SCADA real-time data, alarms, and trends to AVEVA System Platform, creating a unified operations environment—often referred to as a unified operations center, system of systems, or command-and-control center. Using AVEVA System Platform's OMI (operations management interface), it delivers context-aware applications based on the AVEVA Plant SCADA equipment model, enabling secure read access and authorized write capabilities for critical control operations.

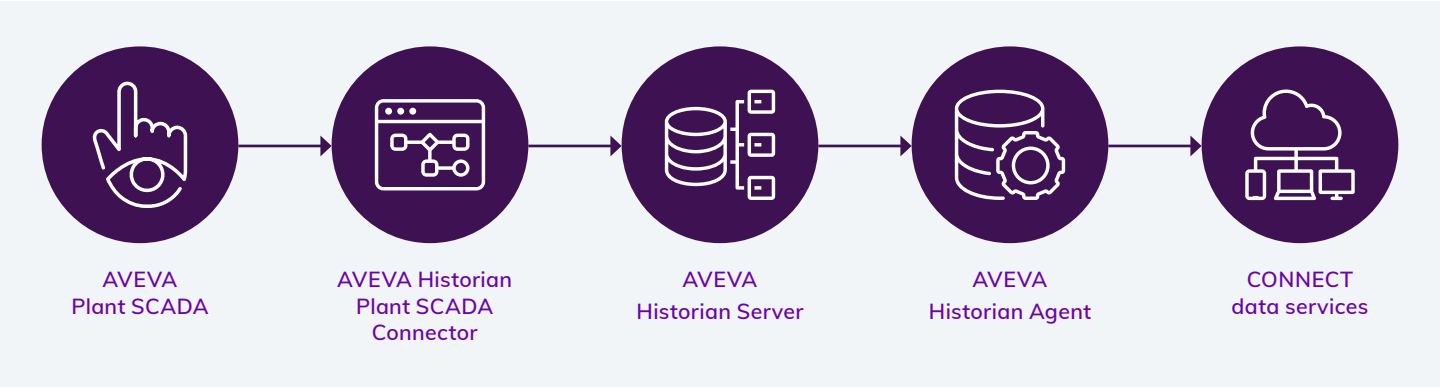
New AVEVA Plant SCADA integration assistant utility

The new integration assistant streamlines the integration of an AVEVA Plant SCADA project into AVEVA System Platform, helping teams build out an on-premises unified operation center solution. It automatically maps AVEVA Plant SCADA equipment templates and instances, I/O tags, alarms, and trends to corresponding AVEVA System Platform object templates, template instances, I/O attributes, alarm configurations, and history attributes, enabling one-to-one automatic configuration.

HTML5 web client option

The web client provides direct access to AVEVA Plant SCADA real-time data, alarms, and trends through an HTML5 browser.

AVEVA Plant SCADA + AVEVA Historian + CONNECT



This diagram above shows the flow of data from AVEVA Plant SCADA to CONNECT data services

The Historian Agent transfers AVEVA Plant SCADA data sent to AVEVA Historian, along with process data and assets from historized tags, into CONNECT data services. It currently supports AVEVA Historian 2020 R2 and later, including AVEVA Historian 2026, enabling these versions to integrate with the scalable, secure, connected data management ecosystem provided by CONNECT data services.

AVEVA Historian Plant SCADA Connector improvements

- Publish equipment, tags, alarms & trends to AVEVA Historian
- AVEVA Plant SCADA equipment hierarchy is now mapped to the location field in the historian tag
- Encrypted communications from AVEVA Historian to AVEVA Plant SCADA

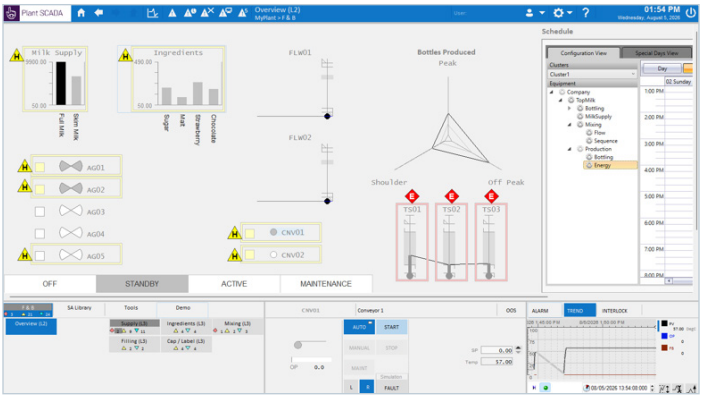
The Historian Agent subscribes to on-premises AVEVA Historian tags fed by AVEVA Plant SCADA and publishes them to CONNECT data services over an encrypted HTTPS connection. It can support:

- Streams up to 30,000 tags to CONNECT data services
- 15,000 tags/sec continuously (30,000 tags/sec bursts for 2–3s)
- Publishing health and diagnostics data to CONNECT, available in the sequential data store (SDS) stream data

EU CRA readiness

New engineering improvements strengthen AVEVA Plant SCADA's security posture and support EU Cyber Resilience Act, including:

- Updated system management server (SMS) adds auto-paired universal trust boundaries, ensuring secure AVEVA integration to all software connected to the same SMS, including AVEVA System Platform
- Updated platform hardening and third-party libraries reduce attack surface and simplifies patching
- Improved TLS and secure communications
- Security-minded defaults and guidance for deprecated components
- Enhanced diagnostics accelerates detection, analysis, and recovery



This image shows runtime for AVEVA Plant SCADA

AVEVA Plant SCADA drivers

Drivers have been updated to align with the AVEVA Install Toolkit (ITK) standard, bringing modern installation capabilities and improved compliance. Additional cybersecurity enhancements and fixes for customer-reported issues have also been made.

Updates on key drivers include:

- **BACNET (v5.1):** Upgraded to latest BACstac version (v7.10.5)
- **OFSOPC (v4.3):** Added configurable parameter "StatusGroupUpdateRate"

Additional updated drivers: IEC870IP(v5.4), SNMPII(v3.3), CTICMP(v4.3), ABMLXEIP(v2.2), COMX(v3.2), Modbus(v3.3), MODBUSA(v3.3), MELSECQ(v2.3), KNX(v2.5), OPCLX(v2.3), ABCLX (v5.8).

Microsoft updates

- Upgraded from .NET 8 to .NET 10 for improved performance and security and continued Microsoft .NET LTS alignment
- Microsoft Server 2025 support enables "hotpatching"—the ability to apply OS security updates without reboot

Additional AVEVA Plant SCADA 2026 updates

Enhanced I/O: Memory devices

Memory devices are typically used for virtual devices that do not have corresponding physical I/O devices and require data storage with the full functionality associated with I/O variables, such as alarms. Memory devices can now provide timestamps for sequence of events (SOE) pages, enabling more accurate event visibility.

WebView2 migration

Web content migrated from Chromium Embedded Framework to Microsoft WebView 2 supports modernized web rendering and updated security posture.

Process analyst navigation toolbar can now be automatically hidden

The process analyst navigation toolbar can now be hidden through the automation interface by setting the visible property of the appropriate toolbar object.

Enhanced CTAPI

CtAPI now provides more precise alarm analysis to external applications. Additional properties are now available in alarms and other tables for specific alarm-tag types, enabling external CtAPI applications to support expanded alarm analysis use cases.



This image shows runtime for AVEVA Plant SCADA

Logging system actions

Deployment services logging has been enhanced to capture more information about underlying issues during deployment operations. This information is logged at the verbose level, making issues easier to identify and troubleshoot.

CiCode improvements

CitectInfo() function retrieves the runtime encryption state programmatically for adaptive UI/automation.

TagSubscribe() function now passes additional VTQ (value time quality) parameters to the callback. Tag subscribe callback has been changed to accept additional arguments.

Trend comments increased

Trend server now allows for more characters to be used in the comment fields, increasing from 48 characters to 254 characters.

Deployment server improvement

The AVEVA Plant SCADA deployment server service startup time has been improved via updates to the underlying SQLite components, which improve the security posture as well as startup times.

Logging users actions

Syslog message has been updated for unsuccessful logins. Logging message for an unsuccessful login now draws the user's attention to additional information available in the event viewer.

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