



AVEVA™ Insight on AVEVA Connect

Service Description



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# AVEVA Insight on AVEVA Connect

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## Document Purpose and Audience

### Document Purpose

This document describes AVEVA Insight on AVEVA Connect, including key features and limitations, as well as the operational parameters.

This document must be read in conjunction with the AVEVA Connect service description, which describes the common services available for all functional digital services on AVEVA Connect. Any additions or exceptions to the common services are described in this document.

### Audience

The audience of this document are IT departments and business decision makers who are investigating whether to leverage AVEVA cloud offers in their own IT landscape.

## About AVEVA Insight

AVEVA Insight is a powerful and secure cloud environment for operational continuity. It enables collection, storage and visualization of operations data, as well as provides cloud-based MES (Manufacturing Execution System) functionality, condition management, advanced analytics, machine learning, mobile reporting and much more, to help you and your team better manage your assets and operations.

AVEVA Insight enables users to:

- Connect with critical production data anywhere, anytime and on any device
- Unlock the plant performance and efficiency KPIs such as OEE and asset utilization
- Compare results/data across assets, plants or fleets
- Understand the performance and state of assets and production processes in a visual context
- Get early warning detection of potential sensor and asset anomalies
- Create personalized content, dashboards and alerts
- Share and collaborate across different teams and assets that are geographically spread out

### AVEVA Insight Modules

AVEVA Insight offers the following fully integrated add-on modules:

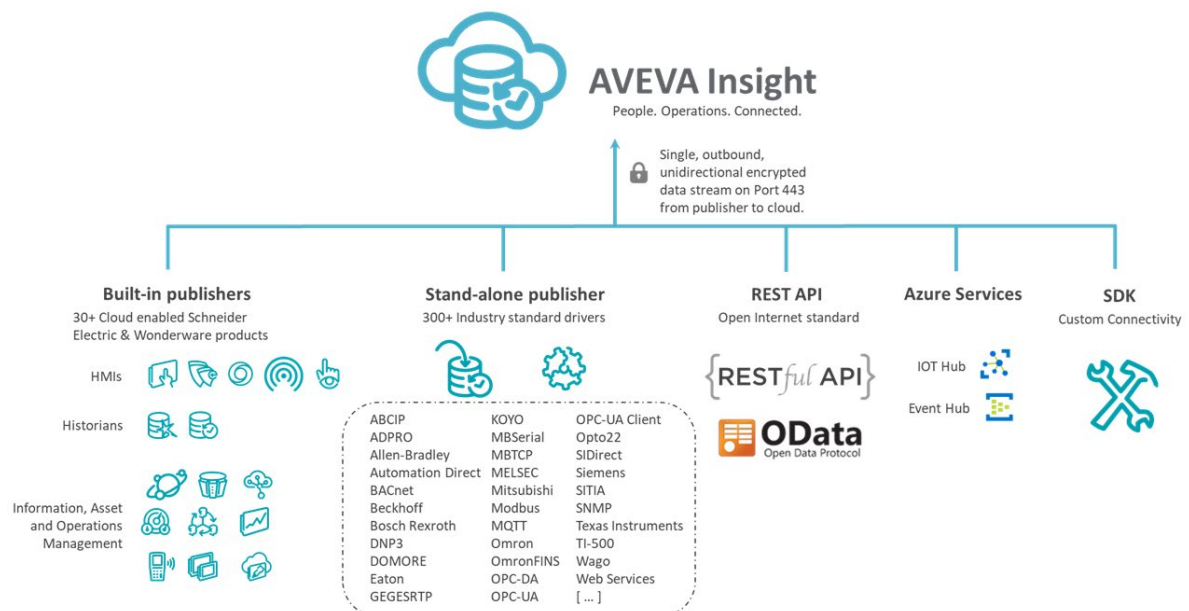
- Advanced Analytics: Optimize operations at scale by leveraging the power of artificial intelligence and prescriptive maintenance on the cloud.

- **Asset Library:** Accelerate time to value and share best practices across the organization with pre-packaged libraries that help free up resources, optimize asset performance, and address inconsistent or missing data.
- **BI Gateway:** Automate the extraction, transformation and storage of operational KPIs with enterprise manufacturing intelligence (EMI) solution.
- **Guided Analytics:** Increase plant asset and production line utilization and efficiency, identify areas of improvement with root cause analysis. Standardize and compare OEE KPIs.
- **Predictive Asset Optimization:** Optimize your operations by combining simulation and machine learning to detect anomalies earlier and with more clarity. Predict the Remaining Useful Life of your equipment to analyze and evaluate the options to schedule maintenance.

## Architecture

AVEVA Insight is a vendor and system agnostic service. Using the AVEVA Insight publishers and open APIs, you can bring in the operational data from a variety of publishers from AVEVA on-premises offers and drivers from a large number of industrial devices, into a single outbound, unidirectional, encrypted data stream. Additional methods of ingesting data include REST, a provided SDK, and native Azure Services. Together these provide a unified stream of actionable intelligence for process analytics and asset efficiency.

The publishers can connect to the cloud to push data in to AVEVA Insight. AVEVA leverages standard https protocols for publishing of data, and has tools that can be used to cater for corporate DMZ architectures that limit outbound connections to a small whitelist of sites.



## Service Overview

AVEVA Insight on AVEVA Connect is a multi-tenant application based on Microsoft Azure. AVEVA Insight service provides access to geographically dispersed users.

## Service Limitations

AVEVA Insight has the following limitations:

- The service supports a maximum system sizing of 2 million tags
- The service supports a maximum data rate of 250,000 changes per second
- Guided Analytics has a maximum of 30 tags per model

## Regional Cloud Availability

AVEVA Insight is accessed via the public Internet using HTTPS/TLS, and is available from the following public cloud regions:

- West US (California)
- North Europe (Ireland)
- Australia East (New South Wales)

## Hardware and Software Requirements

As AVEVA Insight is provisioned on AVEVA Connect, a supported browser is the only requirement to use it.

Component	Minimum/Recommended
Web browser	HTML5 compatible browser, including the latest versions of Google Chrome, Mozilla Firefox, and Microsoft Edge.
Internet connection	10 mbps or higher per user
Firewall Port	HTTPS port 443 (For the AVEVA Insight publisher connection to the cloud.)

## Security Standards and Compliance

AVEVA Insight is a native cloud offering built on Microsoft Azure and automatically leverages its security features.

In addition to the technologies and architectural practices that ensure high security for AVEVA Connect, AVEVA Insight restricts access by location and/or by asset. Users must be assigned to the location and/or the asset to have access to the relevant software functions.

## High Availability, Business Continuity, and Data Protection

To ensure high availability, business continuity, and data protection, AVEVA Insight follows the timelines given below.

- **Database Storage:** AVEVA Insight runs on a proprietary database on top of the native Azure services.
- **Data Backup**
  - Process, event, and metadata are stored as Blob (binary large object) in storage accounts with geo-redundant storage (GRS) enabled to store three copies of data.
  - News, comments, content, journals, CIM and MES data are stored in the Cosmos database, backed up every **4 hours**.
  - Guided and advanced analytics models are stored into an Azure SQL database, backed up continuously (leveraging SQL Azure Point in Time Recovery).

- **Disaster Recovery**

AVEVA follows predefined procedures for restoration and disaster recovery.

In case of a disaster, services and data are restored in an alternate environment leveraging latest available backup.

Cloud Service	Recovery Point Objective (RPO)
AVEVA Insight	4 hours (At a minimum daily off-site backups are maintained).

Cloud Service	Recovery Time Objective (RTO)
AVEVA Insight	24 hours (including provisioning, service deployment, and testing)

## Decommission of the AVEVA Insight Service

The customers are able to request a copy of the data for up to **60 days** from termination, beyond which AVEVA does not have the obligation to continue to store customer data. During this period, if a customer deletes a solution, then after **10 days** of deletion, data will be deleted and will not be recoverable.

Normal maintenance process ensures that data is deleted between **61-75 days** from the termination date.

Decommission of the AVEVA Insight service can happen under these scenarios:

- **By customer request**

Termination date is taken as the date when the request is received.

- **If renewal becomes 21 days overdue**

Termination date is taken as the renewal date.

For more generic information on decommission and data destruction, see the AVEVA Connect service description.

## Service Level Commitment

AVEVA Cloud Services are governed by the AVEVA General Terms and Conditions.

The AVEVA Cloud Service Level Commitment is a supporting document that describes the service level commitment for all available AVEVA Cloud Services.

Both documents are available on the AVEVA web site at <https://www.aveva.com/en/legal>.

## Additional Services

AVEVA offers an extensive collection of Customer Success Accelerators, well-defined, outcome-based services that are designed to ensure you realize the maximum benefit from your investment in our software through all the lifecycle stages of your software application.

For more details, visit the Customer Success Accelerators site at <https://www.aveva.com/en/support/customer-first/success-accelerators/>.