



# AVEVA™ Insight Advanced Analytics Module

## Service Description



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# AVEVA Insight Advanced Analytics Module

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## Document Purpose and Audience

### Document Purpose

This document describes the functional digital services of AVEVA Insight Advanced Analytics Module of AVEVA Insight, including its 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. Also read the AVEVA Insight service description to know more about the base service which runs AVEVA Insight Advanced Analytics Module.

This document is neither an agreement, nor is a supporting document to the Product Schedules that outline the service commitment available on *the AVEVA site* <https://www.aveva.com/en/legal/>.

### Audience

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

## About AVEVA Insight Advanced Analytics Module

AVEVA Insight Advanced Analytics Module monitors the real-time health and performance of critical assets. AVEVA Insight Advanced Analytics Module uses artificial intelligence, advanced pattern recognition and sophisticated data mining techniques to determine when a piece of equipment is performing poorly or is likely to fail. The early identification of equipment problems leads to reduced maintenance costs and increased availability, reliability, production quality and capacity.

AVEVA Insight Advanced Analytics Module learns from an asset's individual operating history and develops a series of normal operational profiles for each specific piece of equipment. AVEVA Insight Advanced Analytics Module then compares the known operational profiles with real-time operating data to detect the subtle changes in system behavior that are often the early warning signs of pending equipment failure. An advanced alert manager and email notification provide near real-time updates of how well a plant or system is functioning. AVEVA Insight Advanced Analytics Module includes an advanced analysis application for identifying why an asset is not performing as expected. The software is not specific to certain types of equipment or processes and has been used in a wide variety of equipment health and performance monitoring applications.

### Components

AVEVA Insight Advanced Analytics Module is composed of three systems.

- The Model Builder Client: Windows application for creating models, cleansing data, deploying models, and for system administration.
- The Server: Windows services that periodically compares the current sensor values in a model with the asset signature captured from historical data.

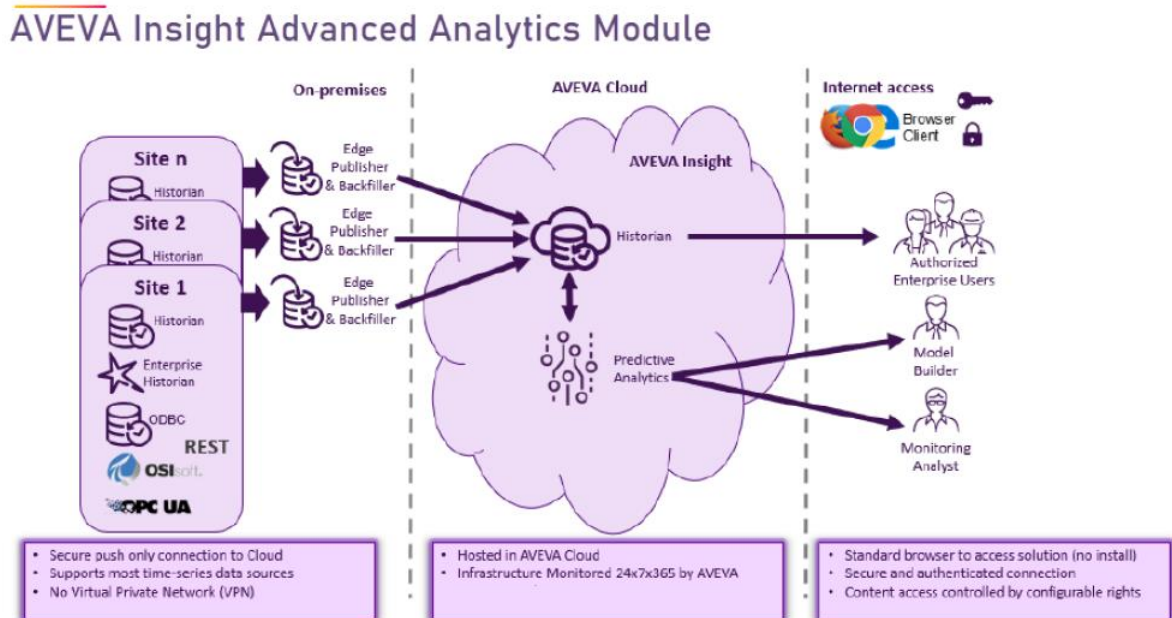
- Monitoring client: Web-based application for monitoring and diagnosing alerts.

AVEVA Insight Advanced Analytics Module stores its configuration and transactional data in a Microsoft SQL Azure database, and time series data in an embedded Historian database.

Key features of AVEVA Insight Advanced Analytics Module are:

- AVEVA Insight Advanced Analytics Module provisioned on AVEVA Connect deploys all these three components on a single Windows Server virtual machine.
- Access to the system is controlled via AVEVA Connect, and software usage is streamed from the virtual machines.
- AVEVA Insight Advanced Analytics Module is a single tenant software. While users access their systems through AVEVA Connect for their environment, the rest of their assets are completely separate.

## Architecture



## Service Overview

AVEVA Insight Advanced Analytics Module managed service on AVEVA Connect provides access to dispersed users. All users, user groups and roles are defined and managed using AVEVA Connect.

## Service Limitations

These are the limitations of AVEVA Insight Advanced Analytics Module:

- AVEVA Insight Advanced Analytics Module retrieves its data from AVEVA Insight. As such, on premises historian data for the assets monitored by AVEVA Predictive Analytics need to be published to AVEVA Insight. This requirement for centralizing all the data in one platform is actually an advantage, providing several additional capabilities and brings more value to the original data.
- The REST API is not available.

## Regional Cloud Availability

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

- West US
- North Europe
- Southeast Asia

## Software Requirements

As AVEVA Insight Advanced Analytics Module 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, Microsoft Internet Explorer, and Microsoft Edge.
Internet connection	10 mbps or higher per user

## Security Standards and Compliance

In addition to the technologies and architectural practices that ensure high security for AVEVA Connect, AVEVA Insight Advanced Analytics Module restricts access by roles, and users must be assigned to roles 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 Advanced Analytics Module follows the time lines given below.

- **Database Storage:** AVEVA Insight Advanced Analytics Module on AVEVA Connect runs on Microsoft SQL Azure database.
- **Data Backup**
  - Full backups are completed **every week**, with differential backup available every **12 hours**.
  - All backup data is retained for **7 days**. Backup on Saturdays is maintained for **4 weeks**.
- **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 Advanced Analytics Module	24 hours

Cloud Service	Recovery Time Objective (RTO)
AVEVA Insight Advanced Analytics Module	48 hours

## Service Level Commitment

AVEVA Cloud Services are governed by the Cloud Service Agreement available on the AVEVA Legal site *AVEVA Cloud Services Agreement* <https://www.aveva.com/en/legal/cloud-services/>.

The *Service Level Commitment for AVEVA Cloud Services* <https://www.aveva.com/en/legal/trust/servicelevel/> is a supporting document that describes the service level commitment for all available AVEVA Cloud Services.

## 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* <https://www.aveva.com/en/support/customer-first/success-accelerators/>.

Depending on the contract details, our project services include:

- Project management (PM)/project engineering (PE)
- Point configuration planning and mapping
- On-premises historian data publishing
- System configuration
- Knowledge transfer
- User training
- Model building and tuning training
- Monitoring of alerts (Monitoring as a Service)