

Bentley[®]
Advancing Infrastructure

CONNECT Edition



AssetWise[®] 4D Analytics CONNECT Edition

Real-time Insights and Advanced Analytical Capabilities

AssetWise 4D Analytics helps you run your operation more smoothly with context, clarity, and confidence. The application's user-driven operational intelligence platform provides real-time insights and advanced analytical capabilities to improve asset performance, reduce costs, and facilitate mission-critical decision-making.

The CONNECT Edition

The SELECT[®] CONNECT Edition includes SELECT CONNECT services, new Azure-based services that provide comprehensive learning, mobility, and collaboration benefits to every Bentley application subscriber. Adaptive Learning Services helps users master use of Bentley applications through CONNECT Advisor, a new in-application service that provides contextual and personalized learning. Personal Mobility Services provides unlimited access to Bentley apps, ensuring users have access to the right project information when and where they need it. ProjectWise[®] Connection Services allow users to securely share application and project information, to manage and resolve issues, and to create, send, and receive transmittals, submittals, and RFIs.

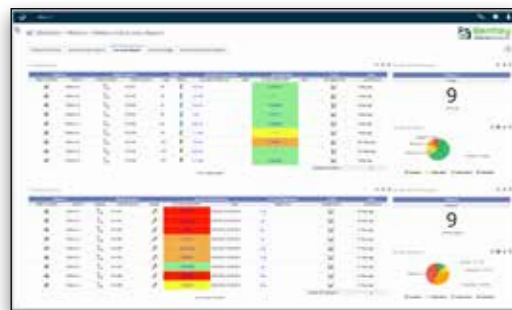
AssetWise Gives You Insight from Data

AssetWise, a part of AssetWise Digital Twin Services, is at the forefront of digitalization. Data is fast becoming the number one asset of any organization. It helps you improve business processes to reduce unnecessary costs and resource hours, as well as provide you with the information you need to fully understand the performance of your business or operations. But data cannot give you that insight if it is not properly analysed and managed.

With large amounts of critical data unused, ignored, or lost, it's important to have a solution that can bring this data to the forefront. AssetWise 4D Analytics collects multiple data types from multiple data sources, performs in-depth analysis, brings data to life with visualization, makes data accessible to all, produces insightful reports, and provides context to the data. You can gain insights for better operational decisions utilizing data mining, aggregation, and calculation tools for timely information output and action that can then be automated for dynamic management of asset performance parameters.

Incorporate into a Digital Twin Environment

With AssetWise iTwin[®] Immersive Asset Service, your data is visualized in an immersive context either within existing 3D models of your assets or within a reality mesh created from high-resolution photographs via Bentley's ContextCapture software. By simply clicking on an object, you can display 4D



Create KPI reports to display different sources of IIoT data and check on performance status in a number of different ways.

analytics data and relevant performance information directly within this digital twin. Alternatively, you can display models within the dashboards. AssetWise makes engineering information readily available, comprehensible, and instantly accessible to a wider population. Bentley's machine learning and advanced analytics makes your high-volume engineering information more valuable, even when gathered from a variety of sources, including the Industrial Internet of Things, in a number of contrasting and diverse formats.

More than an Analytics Tool

AssetWise 4D Analytics allows you to monitor, diagnose, manage, and optimize all aspects of your operation. You can report events and track behaviors in real time, granting instant insights into performance. AssetWise can diagnose and identify problems, allowing you to proactively act on information. Optimization improves decision-making through the convergence of IT and operational technology with foundational engineering technology – IT-OT-ET – to prescribe and automate actions. With this level of analytics, AssetWise helps you move seamlessly from reactive to proactive, and from asking what happened to determining what will happen. The flexibility in AssetWise makes it the complete solution for analytics, KPI calculations, and predictions. With easy-to-configure dashboards you can use without the need for IT support, your asset data can be quickly shared across your organization to improve visibility and decision-making. You can view and compare information on the component level, across a region, or globally. AssetWise helps you increase operational performance and efficiency by inspiring better operational decisions driven directly from the data, with complete context, clarity, and confidence. The application can access systems such as SAP, IBM, Pi, and Oracle, as well as leverage data directly using the embedded data collection framework. AssetWise also integrates with most data sources, including SCADA systems, Modbus, LonWorks, data warehouses, and more for rapid and easy implementation, either manually or scheduled.

System Requirements

Hosted

Supported Browsers

Firefox, Internet Explorer 11, Edge

Client Hosted

Recommended Environment

Open JDK

Recommended Web Service

Apache Tomcat 9

Recommended Server

SQL Server 2016 and Azure SQL

Find out about Bentley
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AssetWise 4D Analytics At-A-Glance

Digital Twin

- View data within a digital twin or 3D model within dashboards
- Add context within an immersive environment

Asset Hierarchy

- Represent organization/physical structure within a digital twin
- Add and maintain points, calculations, and metadata
- Drill down to any measurement or calculation to view performance
- Drag and drop different points from hierarchy for “slice and dice” data analysis
- Save and store individual user-defined selections for reuse or sharing

Calculation and Rules-based Engine

- Analysis, alarm, and event creation and prediction across large data sets
- KPIs based on any points in the system
- User-defined predictive calculations facilitates proactive behavior
- Deterministic rules engine with Boolean logic for predicting conditions and events
- Performs millions of calculations daily

Interactive Customizable Digital Dashboards

- Communicate across the whole organization
- Extensive widget library for visualization including tables, mimics, maps, graphs, gauges, and more
- Engineering tools for in-depth analysis
- Visualization tools to identify events at a glance in real time
- Create user-driven dashboards within minutes

Advanced Alarm Management and Notifications

- Intelligent filtering for focus on critical alarms
- Alarm forwarding and notification to the right person at the right time

- Predict trends, patterns, and common causes of alarms
- Alarm management includes user acknowledgment, action, and clearance
- Filter with rules directives and business logic

Templates and Replication Increase Scalability

- Build and grow complex systems based on similar structures, including pre-built calculations and KPIs
- Instantly replicate changes made to a template across all instances
- Scalable for expanding systems

Data Collection Framework

- Connect to any external system or network-enabled device
- Integration with any industry standard interface using custom data connectors
- Incorporate structured and unstructured data
- Web-based and manual input forms
- Upload data with mobile devices while in the field

Comprehensive Reporting Suite

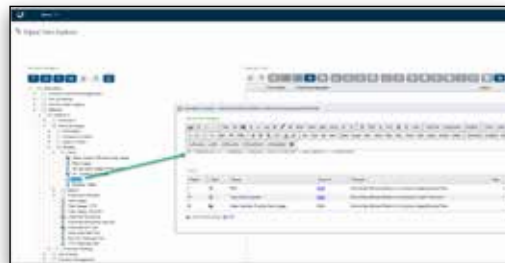
- Ad hoc reporting based on KPIs, processes, or assets
- Create snapshots of performance or operation efficiency
- Exception and diagnostic reporting to identify issues and causes
- Self-service access to query, analyze, and share information

Attributes/Metadata

- Add any type of information to any point
- Filter and view data on attributes alone

Online Security

- Access levels derived from multigroup divisions
- Hierarchy can be viewed across many organizations, regardless of the group
- Single sign-on capability



Turn raw data into actionable information with the calculation designer.



View models and their IIoT information with geospatial context within the dashboard.