AssetWise Amulet

Predictive Operational Analytics with Context, Clarity, and Confidence

Run your operation more smoothly with context, clarity, and confidence. AssetWise Amulet is an end-user driven operational intelligence platform that provides real-time predictive and prescriptive industrial analytics to improve asset performance, reduce costs, and facilitate mission-critical decision making in core business operations.

AssetWise Amulet Leads the Industrial Analytics Revolution

AssetWise Amulet is at the forefront of the next big wave of business transformation: industrial analytics. Across all asset-intensive industries, sensors, and controllers continually monitor, measure, report, and record a variety of parameters, from temperatures and pressures to flow rates and vibrations, often in real time or near to real time, collecting vast quantities of raw data. This raw data, often unseen or ignored by IT departments, offers real benefits if used correctly. AssetWise Amulet is at the heart of capturing, combining, and analyzing data from IT with operational data to deliver value across a wide range of Bentley Systems' core business sectors.

IT-OT Convergence

IT and operational technology (OT) convergence is the key to realizing digital business opportunities for asset-intensive organizations. AssetWise Amulet is the anchor point that integrates between IT and OT, bridging the gap and transforming data into actionable information.

With large amounts of data becoming available from a variety of sources and in a number of contrasting and diverse formats, compatibility problems and issues combining and synchronizing with IT data can arise. AssetWise Amulet provides a number of tools to capture data regardless of source and structure.

AssetWise Amulet can sit on top of and access systems such as SAP, IBM, and Oracle and leverage data directly using the embedded Data Collection Framework. AssetWise Amulet also integrates with most data sources, including SCADA systems, Modbus, LonWorks, data historians and warehouses, and more, for rapid and easy implementation, either manually or scheduled.

One View of the World

AssetWise Amulet also offers the ability to monitor, diagnose, manage, and optimize all aspects of your operation. Users are able to monitor and report on events and track behaviors in real time, giving them instant insight into performance. AssetWise Amulet can help diagnosis and identify problems, allowing users the chance to respond. Managing the performance of assets and processes enables the shift from unplanned to proactive, enabling your organization to react

Quickly see how parts or the whole operation are performing in real time with interactive dashboards.

to situations before they happen. Optimization leads to improved decision making through the convergence of IT and OT to prescribe and even automate actions. By using this level of analytics, AssetWise Amulet helps you move from "what happened?" to "what will happen and what should I do about it?"

AssetWise Amulet's flexibility makes it the complete solution for performing complex levels of analytics, calculations (KPIs), and predictions. With easy-to-configure dashboards, your asset data can quickly come to life and be shared across the whole operation to improve visibility. You can view information down to the asset level or across a whole region. The Bentley industrial analytics solution with AssetWise Amulet helps you achieve increased operational performance and efficiency, make decisions with complete context, clarity, and confidence, and reduce costs by showing you where to look and what to do next.

Benefits

- Reliable business information to enhance decision-making
- Predict operational or asset events before they happen and plan accordingly
- Reduce costs significantly
- Increase uptime and production
- Move from unplanned to proactive
- Improve ROI
- Benchmark across the organization
- Reduce delivery time of reports

AssetWise Amulet At-A-Glance

Asset Hierarchy

- Representation of organization/physical structure
- Add and maintain points, calculations, and meta data instantly for any updates
- 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 share with others

Powerful Calculation and Rules-based Engine

- Enable analysis, alarm, and event creation and prediction across large data sets
- Create KPIs based on any points in the system
- User defined predictive calculations leads to proactive behavior
- Predict conditions/events and prescribe actions with powerful deterministic rules engine with Boolean logic
- Perform millions of calculations daily

Interactive Customizable Digital Dashboards

- Communicate across the whole organization more effectively
- Rapid problem detection and action
- Aid visualization with extensive widget library including tables, mimics, maps, graphs, gauges, and more
- Visualization tools help identify events at a glance in real time
- Create easy-to-configure, 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 for proactive action
- Predict trends, patterns, and common faults of alarms
- Alarm management includes acknowledgment, action, and clearance of alarm by user

- Improve decision making with confidence by filtering with rules directives and business logic

Templates and Replication Increase Scalability

- Build and grow complex systems based on similar structures in minutes, including pre-built calculations and KPIs to support the business processes
- Instantly replicate changes made to a template across all instances, speeding up implementation time
- Highly scalable to cope with expanding systems

Amulet Data Collection Framework

- Connect to any external system or network-enabled device for rapid implementation
- 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 important KPIs, processes, or assets
- Create snapshots of performance or efficiency of the operation and aid decision making
- Exception and diagnostic reporting to identify issues and causes
- Empower users by giving them self-service access to query, analyze, and share information

Attributes/Metadata

- Add depth to any point by adding any type of information (e.g., model number, manager, installation date, latitude/longitude, unit, max operating level, and so on), without the need of complicated database access
- Filter and view data on attributes alone

Online Security

- Access levels derived from multi-group divisions
- Perspectives means hierarchy can be viewed across many organizations, regardless of the group
- Single sign-on capability
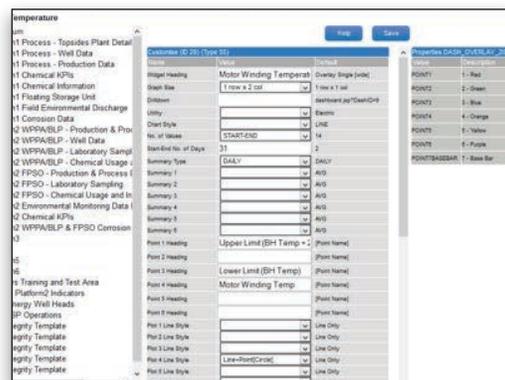
Interactive dashboards can be up and running within minutes with minimal configuration and customization.

Analyze any points within the system for comparison, patterns, and predictions.

Bentley
Sustaining Infrastructure