



PanelManager

Centralized Process Alarm & Event Diagnostics on an Enterprise Scale



PanelManager

Industry 4.0 Compliant & Cloud Based

Modern Industrial Alarm & Event Analytics

Challenge: Process alarms and events generated and captured by plant automation and safety systems are highly correlated with abnormal process events, plant risk and safety and operator competency. Traditionally this data is used for plant operations only, and doesn't leave the boundary of the plant. Under I4.0, these data sets are being made available to corporate leaders for insight into operational risk and safety, operator workload management, and operator training.

Solution: PanelManager is a cloud native application that provide visibility to industrial alarm and event data away from the site. Our application enables corporate engineering, safety & risk, and training teams to conduct audits and benchmarking studies to generate insights to improve process safety, mitigate industrial risk, enhance operator training and increase operational efficiency.

Solution

Operational Risk & Safety Management

Digital Advantage



Industrial A&E Data and KPI Consolidation:

Consolidate source data from multiple systems across one or more sites.



Real-Time Monitoring: Visualize process alarms, events and operator actions .



Multi-Site Benchmarking: View aggregated figures from across a fleet of operations or drill into the details of a single operating site.



Automated Alerts: Configure automated alerts to track and monitor critical situations, and efficiently provide remote support



Actionable Intelligence: Turn your A&E data into actionable intelligence.





The BlueMarvel Advantage Industrial Expertise Meets Digital Transformation

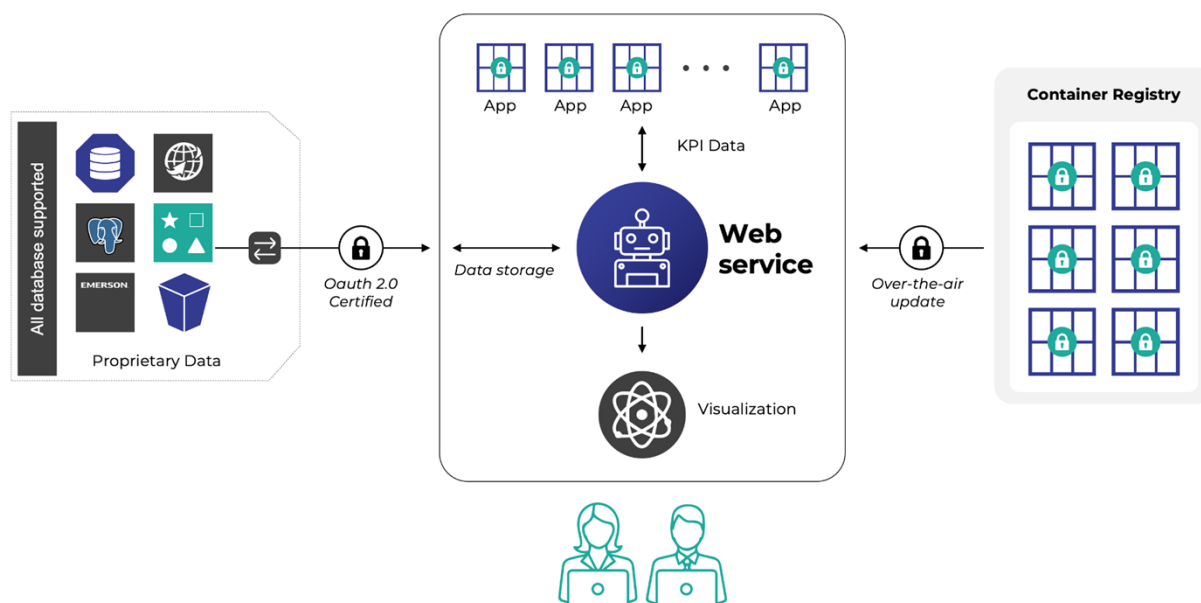
The Difference: Our solution has been developed by industrial energy experts and compares your performance to ISA 18.2 standard. All BlueMarvel applications are built using the latest modern information technology. Unlike other legacy applications, designed to run at a single industrial site, our solution was conceived for enterprise use cases and is capable of benchmarking across your entire operation if required. Our solutions also offer custom-programmability alongside a suite of existing analytic functions allowing you to implement rules, KPI's and algorithms that fit highly specified requirements.

We can support deployments no matter where you are on your digitization journey. Our solution runs natively in the cloud and has been designed using Docker Containers for easy deployment and set up. We can also manage SAS deployments leveraging our cloud and internal data consolidation infrastructure.



BlueMarvel Application Architecture PanelManager Microservices

- Control hub facilitates KPI calculations, software updates, and data movement between different applications.
- Microservices infrastructure to maximize application uptime and allow for maintenance on separate services.
- Leverages your existing cybersecurity protocols to minimize data leakage risks.
- Application is stateless, guaranteeing your data integrity and provides flexibility on future usage of calculated KPIs.
- Customer managed authorization & authentication so you can control who has access to which data.
- Optional over-the-air updates whenever new versions of the software are available.





Industrial energy and consumables consumption are not a fixed overhead cost; they are variable operating cost that should be actively managed



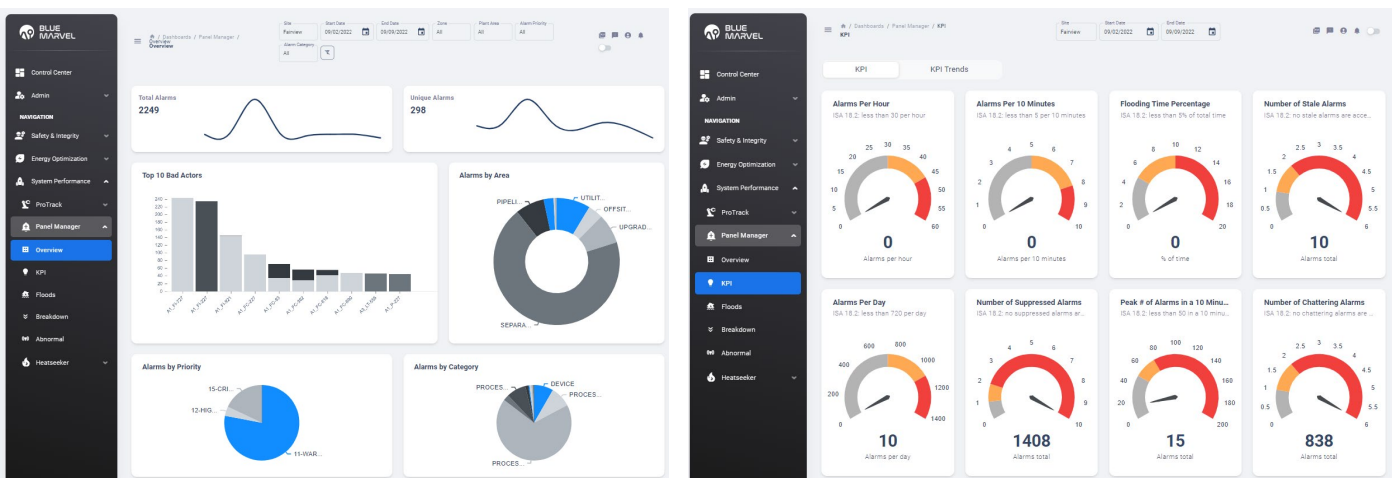
PanelManager Benefits

Lower Variable Production Costs

- ✓ Used in a well-designed energy management program, EMIS has been proven to reduce energy usage and costs by a minimum of 5%
- ✓ Supports corporate energy budgeting and contract negotiation
- ✓ Enables sustainable energy improvements by measuring, documenting, and reporting on historical and current performance
- ✓ Supports creation of greater energy awareness and related decision making
- ✓ Supports energy audits and the identification of energy performance improvement opportunities

PanelManager Dashboard

Showcasing Real-Time Alarm & Event Data



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www.bluemarvel.ai