

BMC Helix Edge

Collect and analyze operational technology data at the edge



PRODUCT DESCRIPTION

BMC Helix Edge is an artificial intelligence (AI)-powered edge management and orchestration solution that unlocks actionable insights and predictive capabilities to optimize asset performance. The edge management solution discovers, collects, aggregates, and analyzes operational technology (OT) data at the point of inception to enable anomaly detection, predictive maintenance, and digital twin simulation in a unified enterprise-wide view. BMC Helix Edge's powerful suite of capabilities improve operational efficiency, minimize unplanned downtime, and increase overall availability and return on assets.

BUSINESS CHALLENGE

Enterprise IT organizations are deploying more internet-connected devices than ever—and seeking to make use of the volumes of valuable data they generate far away from centralized networks or public clouds. That explosion of industrial IoT (IIoT) has created an infinite trove of OT data, but it isn't used to predict potential failures or monitor business-critical systems because IT and OT data systems, duties, tools, and processes are siloed. To remain competitive in the post-cloud era, innovative companies are adopting edge computing, which offers breakthrough capabilities that are not available at the core. However, edge computing faces a unique challenge. With no unifying platform for the Industry 4.0 edge, OT and IT data stay separate.

BMC SOLUTION

BMC Helix Edge can change that, leveraging the power of AI data and machine learning (ML) to efficiently process seemingly endless streams of OT data and:

- Gain enterprise-wide visibility and actionable insights
- Minimize unplanned downtime
- Improve mean time to repair (MTTR) and mean time between failures (MTBF)
- Increase return on edge assets

BMC Helix Edge serves as a unifying platform for the Industry 4.0 edge, enabling companies to efficiently collect and process data at the edge to better monitor all their business-critical systems and better predict potential failures before they happen.

Enterprises in industries such as construction, manufacturing, mining, aviation, defense, and energy are embracing the BMC Helix Edge solution, which enables them to run the core elements of any solution locally, empowering local devices to save their state, interact with each other, and send important alerts and notifications.

KEY FEATURES

- Real-time business insights
- Data collection at inception
- Enterprise-wide visibility
- Condition monitoring and predictive maintenance
- Anomaly detection
- Multi-layered security

PRODUCT DETAILS

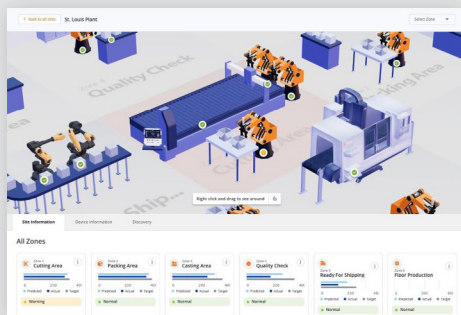
- **Holistic view:** Converges OT data with IT data for a holistic view across informational and operational environments to provide a higher level of intelligence.
- **Digital twin:** Visualizes key OT assets for additional contextual awareness and improves operational efficiency through scenario analysis.
- **Predictive maintenance:** Leverages AI/ML for anomaly detection and predictive maintenance.
- **Automated discovery:** Uses both proactive and reactive discovery at the edge to inventory systems and automate discovery and cataloging of new devices.
- **Data collection at inception:** Collects and processes data at the point of inception without having to move large volumes of data to a central data center or cloud environment.
- **Contextual data integration:** Enriches OT data with third-party data sources to add contextual awareness.
- **Device neutral:** Interacts with the physical world of devices, sensors, actuators, and other OT assets.
- **Secure integration:** Uses a pluggable microservices architecture to connect, analyze, and securely integrate all asset data into the existing systems that inform operators, engineers, maintenance teams, and data scientists.
- **Device maintenance:** Tracks device lifetime usage against life expectancy and maintenance requirements.

KEY BENEFITS

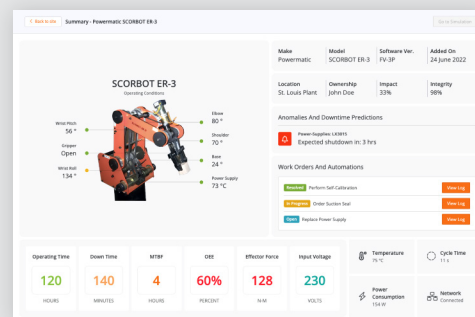
- **Centralized management and monitoring** of all edge/OT and IT assets via the BMC Helix platform.
- **Reduced costs and downtime**, increasing equipment lifespan and preventing failures.
- **Improved operational efficiency and control** via scenario analysis.
- **Operational insights** of edge and OT assets related to operational data.
- **Enhanced visibility and tracking** of assets
- **Real-time data processing** and analysis at the local device level versus a distant location or cloud.
- **Reduced network traffic**, since data is not often transmitted to the cloud.
- **Improved application performance** with a lower latency level at the edge of the network.


FOR MORE INFORMATION

To learn more about the breakthrough capabilities of this new solution, please visit [BMC Helix Edge](https://www.bmc.com/helix-edge).



 BMC Helix Edge digital twin for manufacturing.



 BMC Helix Edge real-time anomaly detection.

About BMC

BMC works with 86% of the Forbes Global 50 and customers and partners around the world to create their future. With our history of innovation, industry-leading automation, operations, and service management solutions, combined with unmatched flexibility, we help organizations free up time and space to become an Autonomous Digital Enterprise that conquers the opportunities ahead.

BMC—Run and Reinvent

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