

Solution blueprint approach for manufacturing



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A demonstration of edge computing management across the enterprise

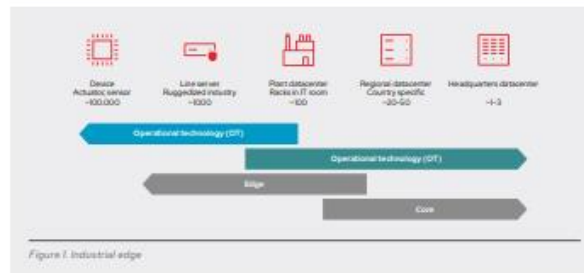
Automate and streamline the management of your edge computing environment for rapid results.

Edge computing presents IT challenges—and offers operational benefits

The manufacturing sector relies on technology to remain competitive. Companies understand that implementing modern information and operation technologies (IT and OT) will help optimize production, streamline core functions, and fuel innovation.

Through edge computing in the hybrid cloud, IT and OT come together to bring processing power closer to the data source on the shop floor. Edge computing with artificial intelligence and machine learning (AI/ML) can:

- ▶ Support faster decisions and actions in the plant.
- ▶ Proactively discover potential errors at the assembly line.
- ▶ Reduce equipment downtime through predictive maintenance.
- ▶ Boost product quality.



While the business benefits of edge computing with AI/ML are compelling, the distributed nature of the model presents challenges to IT operations management. The edge system can exceed 100,000 points, and the management of each point will vary according to location and data needs. Monitoring and controlling this environment must ensure rapid application deployment and updates, as well as maintenance of all clusters at every edge tier.



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In manufacturing, edge computing with artificial intelligence and machine learning (AI/ML) offer many benefits in supporting faster decisions, discovering potential errors, reducing equipment downtime, and boosting product quality. However, the model presents challenges to IT operational management. In this overview, learn how GitOps, blueprints, and Red Hat® solutions can help implement an edge solution and automate and streamline its management.

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