Dell Technologies Validated Design for Manufacturing Edge with Litmus

Accelerate smart manufacturing outcomes by unifying OT, IT, and the business

Solution Highlights

Award-winning hyperconverged infrastructure — Dell VxRail

Machine learning using unconstrained historical data play-

Consumption Flexibility: Subscription-based and CapEx options

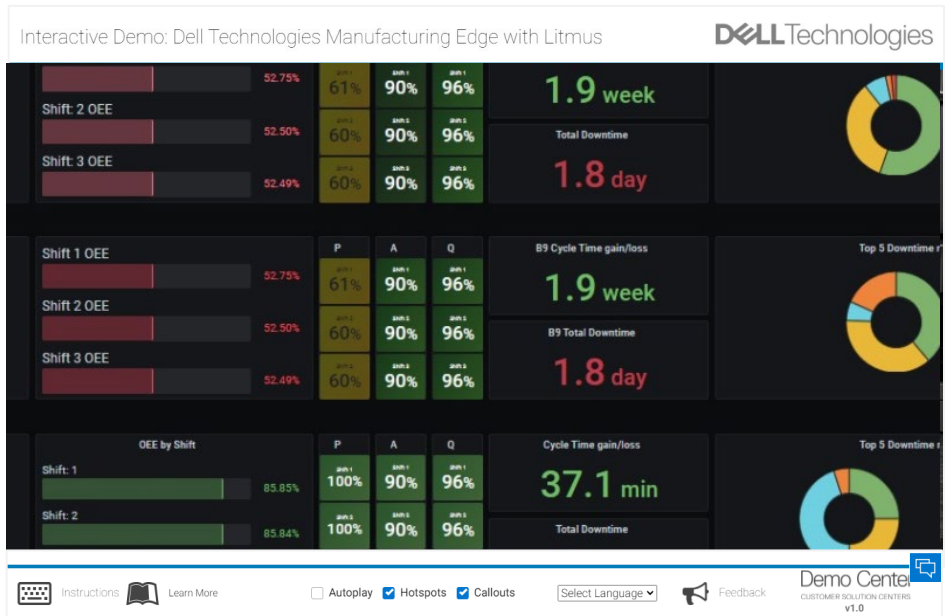Pre-built dashboards and custom visualizations for live

Private app marketplace for containerized / docker apps

Smart manufacturing leverages edge computing to drive business outcomes like reduced costs, optimized production and supply chain, increased yield, and improved asset utilization. However, the path to these outcomes is rife with challenges around connecting disparate devices and equipment, managing voluminous data streams, building real-time actionable insights, and scaling edge initiatives securely and consistently across factory sites.

The Dell Technologies Validated Design for Manufacturing Edge with Litmus is a solution that simplifies the path to smart manufacturing outcomes by:

➤ **Streamlining deployment and integration** from edge devices to cloud applications for faster time to value

➤ **Powering live insights** out of the box for OT, IT, and business agility with better, faster decisions

➤ **Ensuring resiliency and security** to manage at the global scale while minimizing disruptions

➤ **Running artificial intelligence and machine learning workloads** at the edge to predict, classify, and detect anomalies.

This validated, end-to-end solution simplifies the path to smart manufacturing by empowering enterprises to centrally manage and orchestrate industrial edge devices, data, and application—from the factory floor to the enterprise cloud.
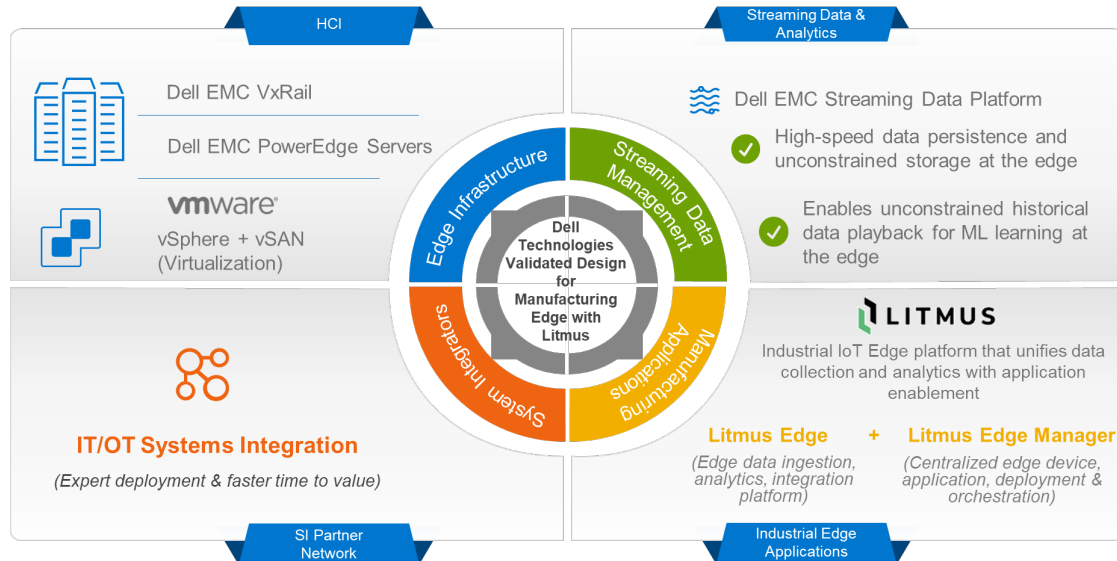
72% Lower IT operational costs, IT staff time and lost productivity, unplanned downtime

250+ Pre-loaded machine drivers to connect to devices and industrial assets out

50+ Pre-built enterprise integrations to seamlessly work with the existing enterprise IT setup

Proven Technologies to Win at the Manufacturing Edge

This solution uses an award-winning hyperconverged infrastructure —Dell VxRail—or the edge-hardened Dell PowerEdge Servers to offer a scalable unified technology architecture that is validated to work with Litmus Edge, Litmus Edge Manager, and Dell Streaming Data Platform (SDP). Together, these technologies support the use cases and workloads for smart manufacturing outcomes.

Unify IT, OT, and the Business for Smart Manufacturing Outcomes

The solution simplifies edge deployments and fosters IT and OT collaboration on manufacturing outcomes stipulated by the business around overall equipment effectiveness (OEE), yield optimization, predictive maintenance, asset utilization, and more. With this solution, manufacturers can:

1. Focus on insights, instead of managing data, using **pre-built and custom data visualizations, analytics and KPIs** for predictive maintenance, OEE, and more.
2. Maintain global visibility of business outcomes, from OT to IT, with **easy integration of ready-to-use data with any cloud or enterprise application**.
3. **Power the industrial edge with AI** by easily ingesting ML-trained models and deploying them seamlessly to the assets and machines on factory floor.

4. Gain multi-cloud flexibility to maintain compatibility with enterprise IT using built-in **cloud connectors to connect to multiple public or private clouds**.
5. Scale to any number of assets or sites with ease by **managing and orchestrating all edge devices centrally** via an orchestration engine.
6. Ensure faster time to value with **cross-factory replication** to expedite manufacturing outcomes.

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