How Databricks Helped a
Medication Management Leader
Achieve 83% Faster Orders, 3x
Storage, and Zero Dispensing Errors
on the Path to an Autonomous



Background

The customer provides automation and business analytics software for patient-centric medication & supply management across the healthcare continuum. More than 6,000 facilities rely on them to increase operational efficiency and improve patient outcomes.

Business Challenge

Customer needed a better way to manage the rising complexity of medication dispensing across hospitals. Some major hurdles included:

- 40% of hospital readmissions are linked to medication-related problems.
- Over 75% of pharmacy staff time is spent on nonclinical, manual tasks.
- Disconnected workflows slowing down medication availability.
- Increasing medication shortages, putting patient safety at risk.

It was clear that customer needed a faster, smarter, and more connected data backbone to move toward its vision of an autonomous pharmacy.

WinWire Solution

Customer partnered with WinWire to modernize their platform — putting Azure Databricks at the heart of the transformation.

Here's how Databricks turned things around:

- Real-time Data Processing: Using Scala-based data pipelines on Databricks, customer built a powerful metadata-driven engine that processed transaction streams coming in via Kafka. Medication transactions were captured, enriched, and serialized into PostgreSQL databases in near real-time.
- Smart Data Enrichment: Databricks notebooks
 pulled in additional insights like pricing, facility, and
 department mapping connecting fragmented data
 points into a complete, actionable view for each
 transaction.
- Inventory Intelligence and Optimization: Realtime dashboards, powered by Databricks, offered predictive insights on stock-outs, benchmarked cabinet usage, and flagged safety standards — giving pharmacy teams critical visibility before issues arose.
- Seamless Integration: Downstream, .Net Corebased microservices and Angular applications made this enriched data instantly accessible across desktops, tablets, and mobile devices — enabling clinicians and pharmacists to act faster and smarter.

Business Value

- Reduced dispensing errors to 0%.
- Medication ordering **speed improved by 83%.**
- Pharmacy storage capacity increased by up to 300%.
- Advanced the journey toward an autonomous, zeroerror pharmacy system.



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