datAvail

Case Study

HVAC Industry Leader Transforms Data Infrastructure for Scalable Growth

Use case: Amazon Redshift/QuickSight to Microsoft Fabric Migration

Business Challenge

A leading commercial and industrial HVAC, refrigeration, and building systems company faced several critical data challenges that threatened their ability to scale:

- Fragmented data ecosystem with disparate sources including Oracle JD Edwards and Profit Tool
- Escalating data volumes (projecting 2 billion daily records by 2025)
- Data sprawl across multiple cloud environments increased costs and complicated access
- Performance bottlenecks during critical processing windows (12:00 AM - 5:00 AM)
- Limited reporting capabilities constraining business decision-making

Datavail's Solution

Datavail designed and implemented a comprehensive data transformation strategy, shifting this organization from their legacy AWS environment to a modern Azure Fabric ecosystem that delivered immediate business value.

We developed a strategic migration roadmap that prioritized business continuity and measurable outcomes. The transformation replaced Talend with Boomi for more efficient data integration across 140+ pipelines and migrated the data warehouse from AWS Redshift to Azure Fabric, creating a more scalable and cost-effective foundation.

We upgraded visualization capabilities from Amazon QuickSight to Power BI, delivering enhanced reporting that empowers decision-makers with clearer, more actionable insights. A comprehensive data governance framework was developed alongside the technical implementation, ensuring sustainable data management practices.

Business Impacts

- **Lower reporting latency**, enabling faster operational responses
- **Reduction in bad data entering the system**, enhancing reliability of business insights
- **Lowering of data management costs** by consolidating cloud
- **New architecture efficiently handles projected growth** to 2 billion daily records
- **Operational Efficiency:** Streamlined data pipelines eliminated processing bottlenecks during peak hours