



Customer success stories

## Overcoming data management challenges in manufacturing

## Customer challenge

In the ever-evolving landscape of manufacturing, data plays a crucial role in driving operational efficiency and informed decision-making. However, many organizations face significant challenges in managing their data effectively, which can impede their ability to harness its full potential.

A large manufacturing packaging customer found themselves overwhelmed by several data management challenges. Their data was scattered across various systems, including legacy databases, IoT devices and ERP systems, making it difficult to access and integrate. This fragmentation led to inconsistent data formats and poor data quality, hindering accurate analysis and decision-making. Furthermore, their existing infrastructure struggled to handle the increasing volume of data generated by their operations, impeding scalability.

## AWS + Cognizant solution description

To overcome these obstacles, they partnered with AWS and Cognizant to develop a solution that integrated data from multiple sources, provided robust data quality checks and governance frameworks, and leveraged AWS's scalable cloud infrastructure to support real-time data processing.

The unified data management solution enabled the packaging customer to integrate data from multiple sources, offering a single, unified view across the organization. By implementing robust data quality checks and governance frameworks, the solution ensured data integrity and consistency. Additionally, it leveraged AWS's scalable cloud infrastructure to handle large volumes of data and support real-time data processing. The reengineering of analytical data from various sources, including the enterprise data lake, RDS sources and on-premises servers, facilitated the migration of OLTP and OLAP data to AWS cloud components such as RDS, S3 data, DMS services and Redshift Serverless with Zero ETL. This process enabled the creation of views and materialized views from diverse data sources for the visualization of reports in Power BI.

## Outcomes/results

The benefits of this innovative solution were manifold. Real-time data availability ensured that manufacturing processes were optimized for better decision-making and operational efficiency. The reduction in downtime during migrations—from one to two days to less than an hour—significantly minimized the risk of production delays and ensured continuous operation. Improved data consistency, maintaining around 40% between the source and target databases, was crucial for accurate reporting and analytics. Furthermore, by optimizing data management and reducing inefficiencies, the company achieved significant cost savings, with predictive maintenance and optimized supply chain operations contributing to reduced operational costs and improved ROI. This comprehensive approach has driven digital transformation in manufacturing, making operations more efficient, reliable and scalable.

## About the partner

Cognizant (Nasdaq-100: CTSI) is one of the world's leading professional services companies, transforming clients' business, operating and technology models for the digital era. We engineer modern businesses to improve everyday life. Our unique industry-based, consultative approach helps clients transform technology, reimagine processes and transform experiences ensuring businesses remain agile, relevant and ready to run more innovative and efficient enterprises.

With AWS as our partner, we focus on the outcomes that matter most to businesses and underpin our solutions with deep industry experience and market-leading IP. Cognizant brings more than 13,000 AWS certified professionals, dedicated AWS certified consultants in 43 countries, hundreds of customer launches and successes, and more than 70 transformational blueprints to drive innovation beyond cloud migration.

As a premier consulting partner, Cognizant hold numerous AWS competencies, including AWS Mainframe Migration, AWS SAP, AWS Migration, AWS Financial Services, AWS Healthcare, and AWS Life Sciences. Partner programs include AWS Well Architected, AWS Managed Service Provider, AWS Marketplace Seller, AWS Solution Provider Program, and AWS Public Sector Solution Provider.



Cognizant (Nasdaq-100: CTSI) engineers modern businesses. We help our clients modernize technology, reimagine processes and transform experiences so they can stay ahead in our fast-changing world. Together, we're improving everyday life. See how at [www.cognizant.com](http://www.cognizant.com) or [@Cognizant](https://twitter.com/Cognizant).

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