

# Leading Tech Manufacturer Saves ~\$1.4 Million Annually With New Data Architecture

Case Study



# Overview

# Cutting-edge data architecture reengineering

A global leader, in designing and manufacturing computer input and interface devices, needed to speed up data processing, improve data utility and accessibility, and optimize data costs (a whopping 30+ TB for 1,000+ users).

### Zensar's brief:

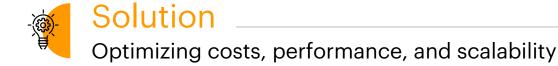
Use cutting-edge data architecture reengineering services to deliver a cost-optimized, scalable, and high-performance architecture.

## Beyond the brief:

We brought in a qualitative difference to the client's operations, saving close to \$1.4 million per year in maintenance and licensing costs.



The client's IT department had a mandate to upgrade from its traditional on-premises architecture based on Oracle Business Intelligence Applications (OBIA), due to high licensing costs, limitations in scalability of hardware instances, performance-related issues in data management, and lack of transparent access to data.



The solution scope covered these aspects:

- Business analysis
- Data modeling
- Extract-transform-load (ETL) development
- Reporting
- Production support
- End-to-end project management

We delivered the solution with a three-pronged approach:

- 1. Increase processing speed with
  - implementation of the client's data warehousing platform in AWS cloud and
  - adoption of Snowflake.
- 2. Improve data utility and accessibility by adding a layer of data virtualization and visualization with tools, such as Denodo and Tableau; this helped create reports and dashboards in Mondrian/ctools.
- **3. Optimize costs** by
  - moving from Informatica to open-source technologies, such as Pentaho PDI and Pentaho Reporting, and
  - supporting the data storage solution on the Snowflake DB.

# Solution enablers

- Amazon Simple Storage Service (S3) enabled industryleading scalability, data availability, security, and performance.
- Amazon Redshift made it simple and cost-effective to analyze the client's data with fully managed cloud data warehousing.



# Cost-efficient and future-ready data solution

- Adoption of AWS cloud services, Snowflake DB, and Pentaho BI
- Separation of compute and storage nodes, using Denodo and Tableau

### **Business outcomes:**

The solution enabled recurring annual savings of \$350K on licensing and ~\$1 million on server maintenance. It also enabled flexible scaling of the data warehouse, easy data access, and integrated data analysis.





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