

# 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.



## Challenges

---

### Low performance and high 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.



## Solution

---

### Optimizing costs, performance, and scalability

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 industry-leading 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.



## Impact

### 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.

**zensar**  
An  RPG Company

At Zensar, we're 'experience-led everything.' We are committed to conceptualizing, designing, engineering, marketing, and managing digital solutions and experiences for over 145 leading enterprises. Using our 3Es of experience, engineering, and engagement, we harness the power of technology, creativity, and insight to deliver impact.

Part of the \$4.8 billion RPG Group, we are headquartered in Pune, India. Our 10,000+ employees work across 30+ locations worldwide, including Milpitas, Seattle, Princeton, Cape Town, London, Zurich, Singapore, and Mexico City.

For more information, please contact: [info@zensar.com](mailto:info@zensar.com) | [www.zensar.com](http://www.zensar.com)