

CASE STUDY Scalable & Secure Data Integration





PROJECT OVERVIEW



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CLIENT & CONTEXT

Our client was a large corporation operating across multiple industries, including industrial equipment, machinery, home appliances, architecture/exterior design, construction machinery, and energy. Due to the vast and diverse business scope, managing their extensive data assets was a significant challenge.

Luvina played an integral role in this project as a dedicated team member under the client's direction. Our responsibilities focused on **coding** and **UT/IT testing** to support their data management and system integration efforts.

Energy **SERVICES:**



RELIGION: Japan

INDUSTRY: Industrial Equipment, Construction,

FOCUS AREA: Business management

DURATION: August 2023 – Present

SIZE: 5.5MM/month

• System Investigation & Design

Development & Implementation

Comprehensive Testing (UT/IT)

TECHNOLOGY STACK: Data Spider ver 4.4,

MySQL ver 8.0





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CHALLENGE

- Weak data integration between systems, lacking a unified linkage and storage mechanism.
- No centralized data management system, leading to uncontrolled data.
- High labor costs for data aggregation and modification. •



SOLUTION

- **Enhanced Data Integration:** Implemented a Data Integration Platform (ETL/ELT) using SAP and AWS to establish seamless connectivity between systems.
- **Centralized Data Management:** Deployed a unified Data Lake/Data Warehouse using GCP to manage non-AWS data sources like GWS, ensuring comprehensive data governance.
- Agile Resource Allocation: Maintained a readily available team, swiftly adapting to evolving project requirements and personnel changes to ensure seamless execution.

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ACHIEVEMENT

Zero major technical challenges encountered, thanks to a wellstructured training plan and strong team competency.

High-quality assurance compliance, adhering to industry best practices and quality standards to ensure robust and reliable software solutions.

On-time delivery with minimal delays, following the customer's WBS (Work Breakdown Structure). Any priority task changes were efficiently managed without significant schedule impact.

Data processing efficiency improved by

35%

Operational workload reduced by



Data retrieval time reduced by

40%

Enabling faster decision-making.

Reduced IT maintenance costs by



SOLUTION DETAILS



SOLUTION DETAILS - USER JOURNEY

BEFORE AFTER



SOLUTION DETAILS - TECHNICAL DETAILS

Conceptual Network Diagram of the Customer's DX Data Platform (Example)

Single Cloud Platform (AWS)

Multi-Cloud Platform (AWS + GCP)



1. The Data Integration Platform primarily utilizes SAP on AWS.

2. The Data Storage and Data Processing & Utilization Platforms, including non-AWS data sources like GWS, will be built on GCP.

5 EXTRA POINTS





Tech stack and project management

- Maximizing Low-Code efficiency: Mastering the tool, • understanding its limitations, and preparing alternative solutions in advance to mitigate constraints.
- **Deep domain expertise:** Assigning team members to specialize in • different business areas, ensuring tailored data processing approaches.
- Innovative problem-solving: Identifying tool limitations early and organizing brainstorming sessions to address complex processing logic.
- Agile adaptation: Always having contingency plans to respond promptly to changes.
- Proactive project involvement: As an integral part of the project, Luvina actively updated progress, shared challenges, and took on additional responsibilities to ensure project success.



People: Team members demonstrated high levels of responsibility and commitment.

Tools & Processes:

Quality assurance

Regular, structured training ensured continuous skill enhancement.

• Strong technical expertise met project requirements effectively.

Established clear quality standards for each phase of development. • Implemented rigorous review procedures using checklists to maintain consistency and accuracy.



STRICT SECURITY REQUIREMENTS

The project adhered to **ISO 27001** standards, undergoing annual audits conducted by certification bodies. Key security control measures included:

O Strict Security Regulations for **Project Members**

- Work was conducted exclusively on designated project devices.
- Access to network resources was tightly controlled, with permissions managed and strictly confidential.
- Only pre-approved software was allowed for installation and use.
- Any connection to the client's environment required prior registration with the project manager.
- All accounts used in the client environment were registered with Luvina's email, strictly prohibiting personal email usage.

O2 Strict Security Regulations for Offboarded Members

- All project-related accounts, files, and documents were deleted upon exit.
- Personal computers were reset before leaving the project.
- Client stakeholders were promptly updated on personnel changes.





Chart our course to success, together.



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