

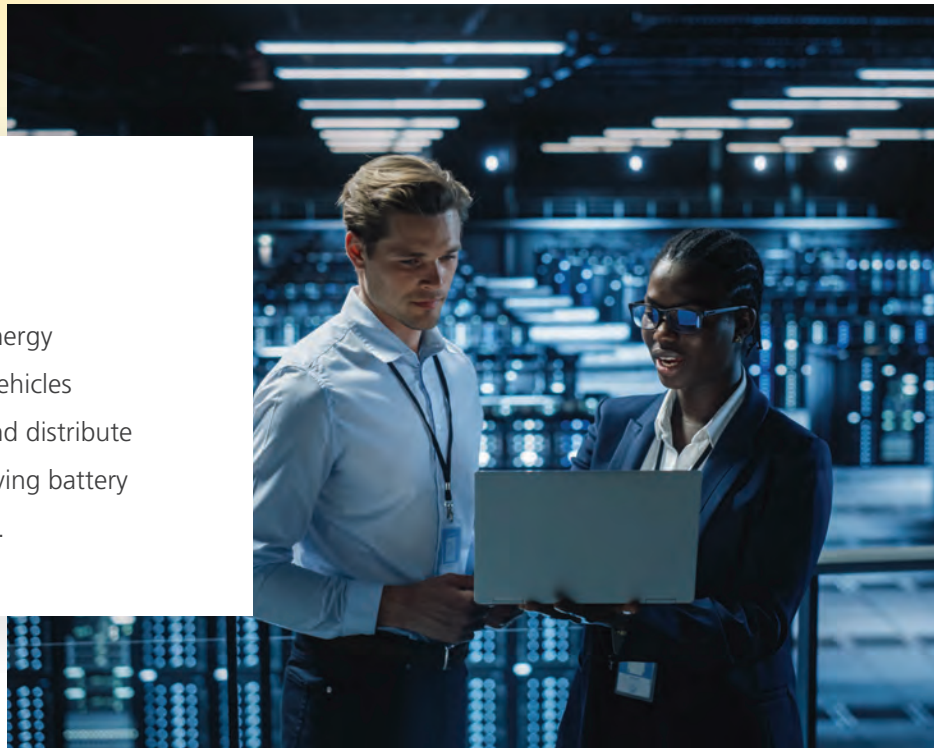
CASE STUDY

APIfication of the Core and Digitalization of the Enterprise for a Global Leader in Energy Solutions



Client

The client is a global leader in advanced energy storage solutions, powering one in three vehicles worldwide. They develop, manufacture, and distribute a portfolio of the most advanced and evolving battery technologies for different types of vehicles.



Challenges

With a vision of becoming the market leader, the client wanted to use “separation from parent unit” as an opportunity to transform its digital core by adopting API-led, service-based architecture.

The challenges were -



Inability to consolidate or reuse existing services



More than 10 ERPs (Enterprise Resource Planning) with local installations in various regions of the world



More than 300 interfaces for 45 common business functions, primarily point-to-point in nature



Adding new integration or changing existing application was a very time-consuming and expensive process

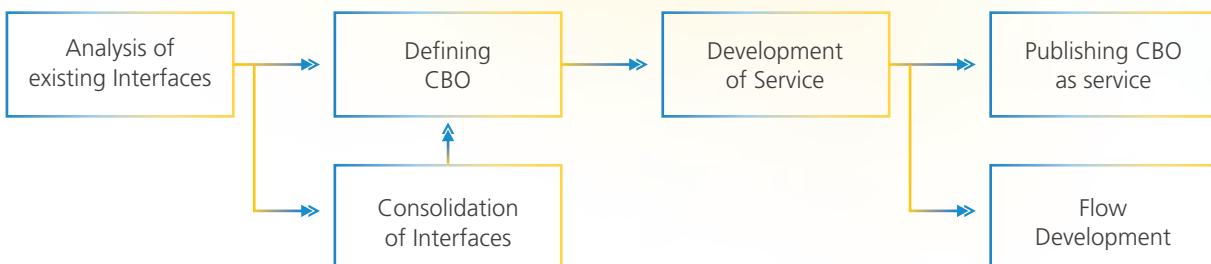
The customer was looking for a solution that could help in service consolidation, increase service reusability, and be flexible to support legacy applications until they are phased out.

LTIMindtree Solution

With the help of LTIMindtree’s assets and tools (SIA platform), our team prepared a strategic migration plan with defined and measurable milestones. We did an extensive product and solution comparison and recommended an appropriate solution. **The transformation was carried out in multiple phases: -**

- **Rationalization:** Analysis of all services and integration points by domain SMEs
- **Consolidation:** Defining Common Business Object (CBO) and creation of canonical model
- **APIfication:** Development of services as APIs
- **Adoption:** Integration/Subscription model for API consumers

An evolutionary hybrid approach for digital transformation was implemented to support integration with legacy and API-compliant applications.



Key achievements

- Hybrid mode that is purely based on API-led architecture yet supports integration with legacy applications
- Created rich and intellectual assets of APIs & RAML documentation that can be reused
- Simple and quick integration with legacy and modern applications
- Automated CI/CD to fast-track time-to-market – agile and quick in adopting changes

Making the system more responsive by transforming existing batch-based integrations into real-time API-led services

Significant cost reduction by service-based architecture, designed to be reused across different integration needs

More choices to switch to more efficient, cloud-based, and affordable solutions for various business functions

Business Benefits

50%

Faster development with a flexible development strategy

40%

Improved time-to-market with CI/CD implementation

30%

Reduction in technical debt and maintenance cost



Digital transformation of the core leading to agility and faster time-to-market



Digital transformation of the core by consolidating over 300 interfaces into more than 50 APIs, leading to agility and faster time-to-market



Reduction in cost overhead by tool consolidation – Replaced more than 6 tools with one single tool/solution



Accelerated self-service, migrations, and decentralization for faster decision-making and quick turnaround



The implementation won the prestigious 2022 Manufacturing Leadership Awards under the Enterprise Integration & Technology + Digital Transformation category

LTIMindtree is a global technology consulting and digital solutions company that enables enterprises across industries to reimagine business models, accelerate innovation, and maximize growth by harnessing digital technologies. As a digital transformation partner to more than 700 clients, LTIMindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by 82,000+ talented and entrepreneurial professionals across more than 30 countries, LTIMindtree — a Larsen & Toubro Group company — combines the industry-acclaimed strengths of erstwhile Larsen and Toubro Infotech and Mindtree in solving the most complex business challenges and delivering transformation at scale. For more information, please visit www.ltimindtree.com.