Summary

Modernizing EDI data integration is essential for steering businesses, employees, and partners toward sustained success. The challenge becomes particularly complex when converging data resources across 17 nations. Faced with this task, our client sought to automate data integration and transition from an outdated EDI platform to a state-of-the-art ecosystem. Recognizing the need, our team designed and deployed a Complex Interface Structure for secured data storage and sharing, resulting in improved scalability and business agility for the enterprise.

Client in spotlight

Based in Niskayuna, New York, USA, our client has a network of over 40 locations across 20-plus countries worldwide. Our presence extends from urban to suburban to rural areas, fostering strong connections with the various local communities. This extensive global reach enables us to cater to a diverse customer base exceeding 4,000 clients in over 100 countries. As an indirect wholly-owned subsidiary of MOM Holding Company, we stand as one of the leading global producers of silicones and silicone derivatives.

FUN FACT

The global Electronic Data Interchange (EDI) software market size is projected to grow from USD 1.98 Bn in 2023 to USD 4.52 Bn by 2030, at a CAGR of 12.5%.

Source: Fortune Business Insights

Key challenges

01 Enterprises with complex distribution systems and increased B2B order flows rely on order management systems (OMSs) that act as a conduit for synchronized information flows and seamless omnichannel experience. However, our client's ability to support multiple customer orders across diverse channels took a hit due to **legacy system issues.** Their existing **OMS was obsolete,** reached end of life, and lacked scalability to fulfill the rising number of customer orders.

02 Our client had an internal legal mandate to store data for the past seven years. However, their existing Electronic Data Interchange (EDI) middleware solution did not have the ability to **automate the storage and retrieval of data.** As a result, there were no synchronized information flows across the enterprise.

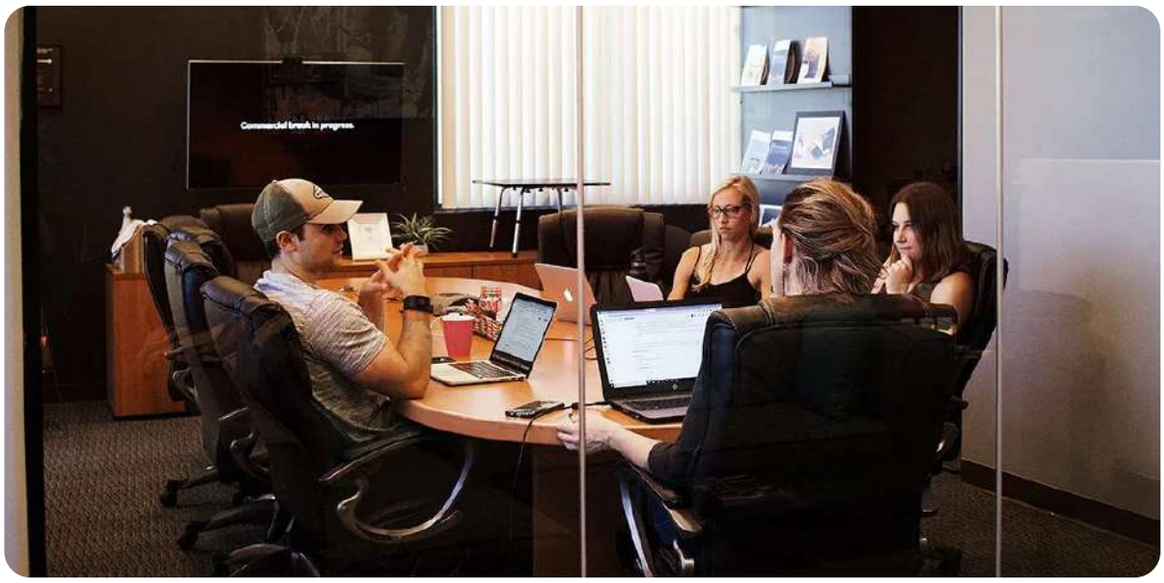
03 There was a lack of synchronized information flow across the enterprise. With historical and concurrent data languishing in separate silos, **inter-system communication suffered,** impeding the organization's operational efficiency.

Solution

Navigating the delicate balance of minimal business disruption during middleware migration presented our primary challenge. Compounded by the **urgency to transition to SAP PO** due to impending deadlines for discontinuing the existing EDI middleware, we strategically replaced it with SAP Process Orchestration (PO). The **migration involved 165 high-level interfaces** executed with precision.

Given our client's existing use of various SAP technologies, the transition to SAP PO was not entirely unfamiliar. The new **middleware seamlessly integrated with their ERP landscape,** empowering real-time fulfillment, monitoring, and optimization of order processing workflows, mitigating disruptions and dependencies.

In compliance with the client's legal mandate for seven-year data storage, we prototyped, designed, developed, tested, and deployed a Complex Interface Structure. This structure, integrated with the new EDI landscape, **facilitated automated data storage** over internal SFTP and, later on, a DB server. The solution provided a unified view of order and inventory processes, secured critical data transfers, and ensured well-informed business decisions. The outcome **elevated scalability,** enabling the company to immediately derive significant value from its data.



Insights and impact | Navigating growth with SAP Process Orchestration

Integrating the ERP landscape empowers organizations with real-time fulfillment, monitoring, and optimization of order processing workflows. This not only **enables agility** in response to market dynamics but also provides **a unified view of order and inventory processes,** enhancing operational transparency across the organization. Implementing a Complex Interface Structure to comply with stringent data storage mandates represents a pivotal step for businesses in the industry, particularly in terms of regulatory adherence and data management. The implementation of automated data storage over secure channels streamlines data management processes for businesses.

By automating the storage of critical data, **companies reduce the likelihood of human error** and ensure the integrity and accuracy of stored information. This efficiency gains particular importance in industries **where large volumes of data are generated and processed regularly,** such as manufacturing, healthcare, or finance. **Access to timely and accurate data is paramount** for businesses navigating today's competitive landscape. At Kellton, we recognize the critical role that data plays in driving strategic decision-making, operational efficiency, and ultimately, business success.

Project Outcomes

Boosted scalability

Met the growing expectations of digitally mature customers by increasing scalability

Supply chain visibility

Enhanced visibility & planning, eliminated additional maintenance costs

Minimal business disruption

Maintained throughout the migration cycle