



SAP Migration and Modernization

Client Profile:

Food Manufacturer & Distributor



Business Challenge

Our client faced a pressing need to modernize its IT infrastructure while undergoing organizational changes. The company, which historically operated its IT functions on-premises and in collocated datacenters, was spinning off from its parent organization. This split necessitated the migration of a large SAP instance from an on-prem SAP deployment to SAP S/4HANA in Azure, along with hundreds of custom integrations written in platforms like Perl, Shell scripts, and Java. Additionally, the company grappled with resource constraints, as their lean IT team lacked the time and expertise to handle the complexities of this migration. To compound the challenge, a critical team member who managed these integrations left the company, leaving the team with significant knowledge gaps.

Failure to complete the migration in a timely manner risked operational disruption, loss of visibility into critical business processes and systems like CRM, and an inability to adopt modern technologies that could support the organization's growth and efficiency.

The Objective

The primary objective was to migrate our client's SAP ecosystem and its custom-developed integrations to a modern environment without disrupting ongoing operations. The client's goals were to:

- Ensure business continuity during the split from the parent organization.
- Modernize IT systems to leverage new features and efficiencies.
- Enhance visibility and monitoring for business-critical integrations.
- Enable their IT team to independently manage and scale operations.

Success was defined as achieving a seamless migration with minimal downtime, enabling the client's IT team to operate autonomously with modern tools and practices, and laying a foundation for future technological advancements.

Our Approach

Keyva's approach focused on balancing modernization with operational stability:

- **Discovery and Planning:** Conducted a comprehensive assessment of our client's existing IT systems, documenting all integrations and identifying dependencies. This phase included current state documentation to understand the legacy systems.
- **Agile Project Delivery:** Adopted Agile methodologies to iterate quickly, adapt to challenges, and demonstrate incremental value to the client.



- **Migration Strategy:** To minimize risk, Keyva adopted a phased migration approach. The team prioritized minimizing changes in flight, focusing on replicating existing functionality in the new environment before introducing optimizations. Several integrations were migrated to Azure, and the code updated to leverage native Azure functionality where possible.
- **Automation and Modernization:** Introduced modern tools like Ansible for configuration management and deployment, enabling automated provisioning and reducing manual intervention. Legacy integrations were updated to leverage features of modern operating systems and standardized scripting practices.
- **Future-Ready IT Environment:** The new infrastructure positioned the client to adopt advanced cloud features, integrate business intelligence tools, and scale operations efficiently. Enhance visibility and monitoring for business-critical integrations.
- **Knowledge Transfer and Documentation:** Ensured that our client's IT team was equipped to manage the new environment through hands-on workshops and detailed documentation hosted on Atlassian Confluence.
- **Increased Knowledge and Visibility:** The client's IT team now has centralized documentation, making it easier to manage changes and onboard new members. The IT team also continues to follow the agile scrum methodology for continued enhancements to this platform. Enhanced Monitoring and Visibility: Implemented monitoring tools to provide real-time visibility into system performance, helping the IT team quickly identify and address issues.

Results

The solution Keyva delivered provided measurable and impactful results including:

- **Seamless Migration:** Successfully migrated the integrations for SAP with no major operational disruptions.
- **Time Savings:** Engineers were able to deploy monitoring scripts within an hour, a task that previously required significant manual effort. This improved reaction time to system failures, and drastically reduced time spent on RCA (root cause analysis).
- **Improved Efficiency:** Standardized and automated processes reduced the IT team's workload, allowing them to focus on higher-value activities.
- **Future-Ready IT Environment:** The new infrastructure positioned the client to adopt advanced cloud features, integrate business intelligence tools, and scale operations efficiently. Enhance visibility and monitoring for business-critical integrations.
- **Increased Knowledge and Visibility:** The client's IT team now has centralized documentation, making it easier to manage changes and onboard new members. The IT team also continues to follow the agile scrum methodology for continued enhancements to this platform.

Why Keyva

Keyva was chosen as the IT partner to undertake this project due to our dual expertise in legacy systems and modern technologies. This ensured a seamless transition with minimal disruptions. Our flexible engagement model provided a cost-effective solution by scaling resources to match project demands. In addition, as a vendor-neutral partner, Keyva was able to deliver unbiased recommendations tailored to our client's specific needs, while emphasizing collaboration and knowledge transfer to empower the IT team post-project. With proven methodologies guiding every step, Keyva effectively addressed our client's immediate challenges while laying the groundwork for sustained growth, solidifying its reputation as a trusted transformation partner.