lemongrass

CASE STUDY

Optimizing SAP RISE Economics: How Lemongrass Helped Apache Modernize on SAP RISE While Reducing Infrastructure Costs

Apache Corporation is a subsidiary of APA Corporation, whose consolidated subsidiaries explore for and produce oil and natural gas in the United States, Egypt and the United Kingdom, and explore for oil and natural gas offshore Suriname and elsewhere.

The Challenge

Apache embarked on one of its most business-critical SAP modernization initiatives: Moving from a traditional SAP ECC landscape to RISE with SAP, running ECC EHP8 on SAP HANA. The program required a partner capable of managing significant technical complexity while protecting operational continuity.

Apache also faced an aggressive four-month implementation schedule, a highly constrained production downtime window, and strict requirements for performance, compliance, cost predictability, and post-go-live stability.

Apache needed more than a migration provider. It required a specialist with deep SAP architecture, HANA optimization, downtime reduction, and cutover governance expertise and one that could deliver the migration on time, keep business disruption to a minimum, and help the company avoid unnecessary long-term cloud costs.

Lemongrass Solution

Lemongrass applied a structured SAP RISE migration methodology designed to reduce risk, accelerate execution, and optimize the resulting SAP HANA footprint using Native Storage Extension. The approach included detailed planning, production-grade mock migrations, automation, performance benchmarking, SSO conversion, and end-to-end cutover governance.

A key focus was SAP HANA sizing and infrastructure optimization. Lemongrass validated Apache's target architecture, analyzed large business tables for SAP HANA NSE candidates, and used performance engineering to ensure the environment could support future growth without unnecessary overprovisioning. This created a more efficient foundation for RISE with SAP while helping Apache control long-term infrastructure and licensing costs.

Lemongrass also focused heavily on downtime optimization. Multiple rehearsal migrations enabled

Apache

"We chose the right migration partner, simply put. We did our due diligence in the vendor selection process, and Lemongrass stood out with their previous projects' portfolio. We were looking for a specialized partner who could meet our requirements, deliver on time and on budget, and help us make the move to RISE with confidence. Lemongrass did exactly that. We are now successfully on RISE, and operations are running smoothly."

Divyesh Desai

Senior Manager - IT

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the joint team to validate cutover sequencing, improve execution times, address dependencies, and build confidence ahead of production go-live. Throughout the engagement, Lemongrass coordinated technical delivery, migration governance, issue resolution, and hypercare support to ensure a smooth transition.

Impact

The migration was completed successfully in approximately four months, with production cutover delivered within the approved downtime window and without business interruption. Apache's production environment remained stable immediately following go-live, enabling smooth business operations during hypercare.

The engagement also delivered measurable cost and infrastructure benefits Apache pursued an aggressive sizing approach for its SAP environment and, prior to engaging Lemongrass, was evaluating whether the required workload could be supported within a more constrained infrastructure footprint. Lemongrass subsequently helped validate that Apache could accommodate the workload within the targeted environment using SAP HANA NSE, reducing the amount of HANA memory required while preserving the necessary capacity for growth.

Key outcomes included:

- Successful migration to RISE with SAP on SAP HANA
- Production cutover completed within the approved downtime window
- No material business interruption during go-live
- Validated Apache's targeted footprint and further optimized memory utilization through SAP HANA NSE
- Stable production operations during hypercare
- A more efficient, scalable SAP platform for future modernization

Rather than executing a simple lift-and-shift migration, Lemongrass helped Apache modernize its SAP platform with a stronger economic and operational foundation. The program demonstrated how SAP HANA performance engineering, downtime optimization, and infrastructure right-sizing can directly influence cloud economics while reducing migration risk.

Apache now has a future-ready SAP landscape on RISE with SAP, supported by a more efficient infrastructure model and increased confidence for future SAP modernization initiatives.