



TECH  
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Case study

# North American Automaker Reduces Mainframe Dependency with SAP Migration to AWS



## Overview

A leading North American automaker's steel procurement and coil-tracking operations ran on a business-critical legacy mainframe application. This created modernization constraints that required continued coordination between mainframe and SAP environments.

To address this, Tech Mahindra delivered a controlled migration that managed cross-system dependencies, standardized procurement processes, reduced operational risk, and established a scalable foundation for future enhancements.



## Client Background and Challenges

A leading North American automotive manufacturer operates an extensive manufacturing footprint supported by a network of service centers, suppliers, and internal business units. To manage its critical steel procurement and coil-tracking operations, the organization relied on a legacy mainframe-based application. This limited modernization required continuous coordination between the legacy and SAP environments. As part of its broader transformation agenda, the organization sought to:

**Reduce mainframe dependency**

**Standardize procurement processes**

**Improve visibility**

**Decrease operational risks**

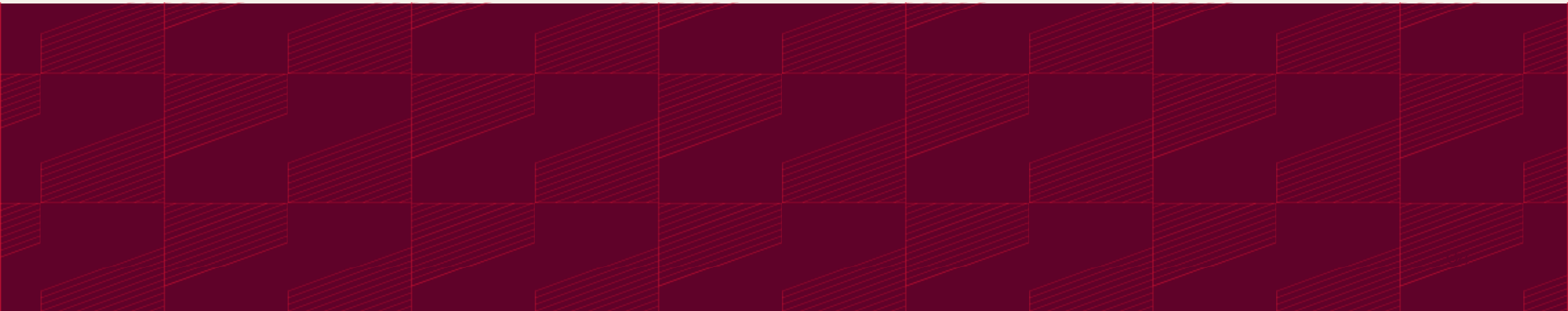




## Our Approach and Solution

Tech Mahindra partnered with the automaker to implement a strategic modernization and migration program. The approach included:

- **Technical Assessment and SAP Process Alignment:** Evaluated the existing procurement workflow and mapped it to SAP's third-party order processing capabilities to support the future-state process and associated AWS platform requirements
- **Proof of Concept Validation:** Confirmed the feasibility of moving key procurement and invoice-creation capabilities into SAP
- **Cross-functional Delivery Partnership:** Worked closely with business and technology stakeholders to move from assessment to implementation with minimal disruption to ongoing operations
- **Data Migration Support:** Enabled accurate movement of procurement data from the legacy environment into SAP
- **Data Validation:** Verified the accuracy and completeness of procurement data throughout the migration to protect downstream reporting and operations
- **Business Readiness and Go-live Planning:** Tested readiness through User Acceptance Testing (UAT) and coordinated go-live timing around critical business freeze periods. This planning ensured AWS environments were configured and provisioned on time for a smooth transition.



## Business and Community Impact

The migration delivered the following results:

- **Reduced Legacy Dependency:** Transitioned core procurement operations from a mainframe-based application to SAP on AWS, reducing mainframe workload by approximately 100 million instructions per second (MIPS)
- **Improved Operational Visibility:** Consolidated coil-tracking and procurement activities within a modern enterprise platform running on AWS, lowering mean time to detect (MTTD) by 10%
- **Greater Process Standardization:** Aligned procurement workflows with SAP-supported business processes for improved maintainability
- **Lower Operational Risk:** Minimized cross-system handoffs and supported smoother business operations, reducing mean time to resolve (MTTR) by 12%
- **Foundation for Future Modernization:** Established a scalable platform for future enhancements and change requests



## About **Tech Mahindra**

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