

Navigating the digital tide

Transforming supply chain visibility with cloud-native modernization

The Modernization Engineering Company



Summary

A leading U.S.-based ocean carrier and logistics provider partnered with Sonata Software to modernize its legacy technology landscape and strengthen operational capabilities across its shipping, terminal, EDI, and order management systems. Sonata delivered end-to-end technology transformation spanning application modernization, cloud operations, enterprise automation, and AI-led innovation. As a result, the client improved platform scalability, elevated operational reliability, and established a strong foundation for ongoing digital innovation – including a leap in cloud compliance posture from 34% to 72%.

Customer overview

Industry
Logistics and distribution
(ocean shipping and supply chain services)

Headquarters: **Hawaii, USA** | Revenue: **~\$4.3B** | Number of employees: **~4,500**

Pressure points

Legacy application landscapes limited scalability, agility, and long-term maintainability, especially in core shipment and fleet platforms

Required real-time insights into vessel schedules, cargo movement, and port activities

Legacy systems lacked AI-driven predictive analytics, limiting efficiency and increasing operational costs

Growing demand for customer-facing digital platforms for tracking, booking, and notifications

Solution highlights

Modernization of SPAN Alaska’s shipment management application from a legacy .NET cluster to a Spring Boot + React application on AWS

Development and support for key logistics platforms including GEMS, MLSC, EDI, RRM, TOS, FMP, and Milo

Delivery of reusable technical modules such as Batch Job Framework, Automated Reporting, Subscription Framework, Common Carrier EDI, EDI Queue Monitoring, and Reference Table UI

Enterprise RPA implementation, cloud operations, infrastructure support, CI/CD enablement, security governance, and AI-led operational assistants

Results that speak volumes

Accelerated the client's shift from legacy systems to a scalable, modern, and cloud-ready technology foundation

Strengthened reliability and business continuity across critical logistics, shipping, terminal, and EDI operations

Improved operational efficiency through automation, reusable frameworks, enhanced monitoring, and stronger security governance

Enabled IoT-based remote monitoring and control of refrigerated containers across vessels, barges, and terminals

Created a strong innovation pipeline by embedding AI and GenAI into real business use cases spanning document processing, data access, analytics, and operational troubleshooting

By the numbers

~9,988 refrigerated containers enabled with IoT-based remote monitoring and control across 15 vessels, 2 barges, and terminals

Cloud compliance posture improved from 34% to 72% through targeted remediation efforts

9,600+ non-compliant cloud resources remediated

60 auto-remediation Lambdas deployed; 180 applications protected by WAF

4 hours saved per PDF processed through RPA automation of the MLSC PO Portal

99.99% error reduction achieved in MLSC PO Portal automation