Stridely
SOLUTIONS

Business Case

Powering Construction Business Growth Through Application Modernization

Overview

Stridely Solutions partnered with a leading building exterior manufacturer to modernize their legacy architecture. The company struggled with operational inefficiencies, limited flexibility, and prolonged development cycles that hindered their competitive edge. Through a comprehensive digital transformation initiative, our team successfully upgraded and consolidated their fragmented application ecosystem into a modern, configurable, and automated platform.

This new environment now supports rapid deployment of new capabilities while perfectly aligning with the company's long-term strategic vision.

The Client

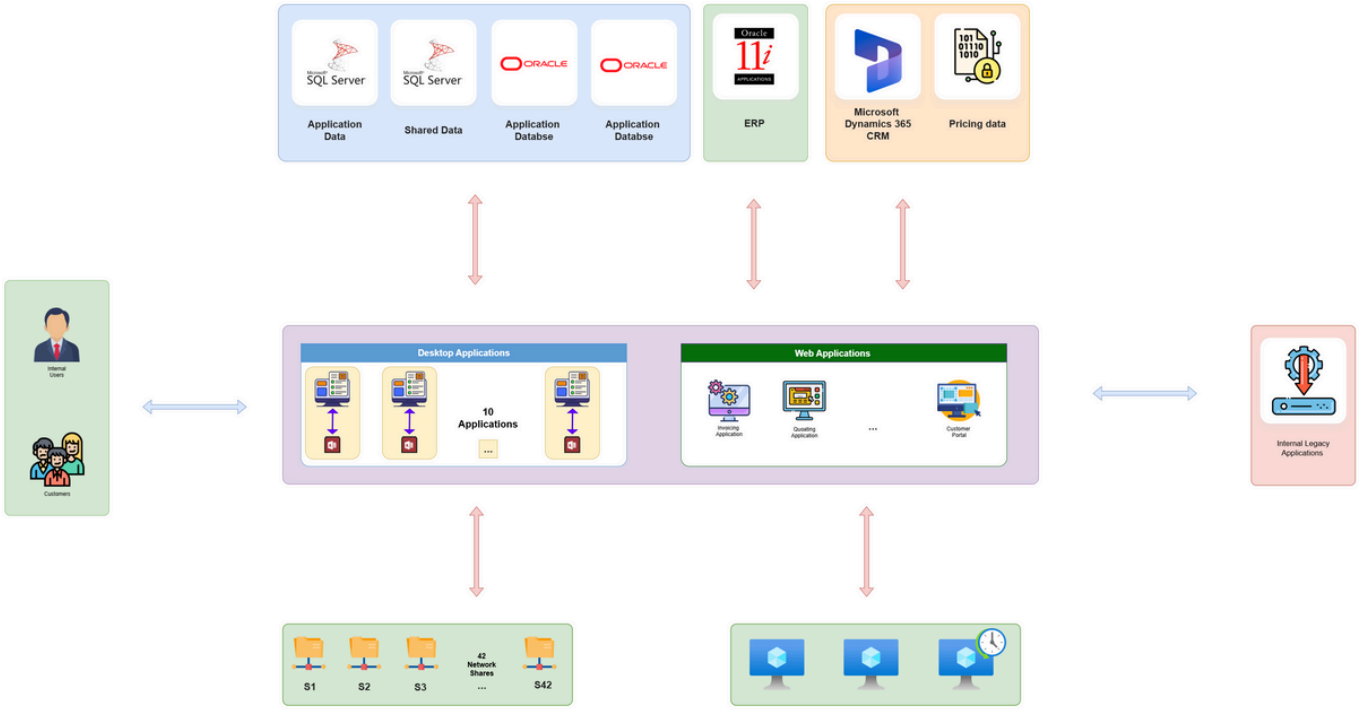
The client is North America's largest manufacturer of exterior building products. Operating across three primary business segments metal coil coating, metal components, and engineered building systems they deliver a comprehensive portfolio including siding, metal products, and trim solutions. They serve both commercial and residential markets, providing a broad range of products for repair, retrofit, and new construction activities.

Their industry leadership is built on decades of manufacturing excellence and innovation in exterior building materials, allowing them to maintain a dominant position in both new construction and the growing repair and remodel sectors across the continent.

Legacy Application Overview

The client relied heavily on a suite of legacy applications for their entire business operation. These applications were built over a decade ago using outdated and scattered technologies including Fortran, Delphi, C++, and .NET Framework 3.5. This technological fragmentation created significant challenges in scaling and maintaining their systems.

The business faced daily hurdles related to performance, adaptability, and time-to-market for new features. Despite previous modernization attempts with various technology solutions, each effort failed due to the complexity and critical nature of the legacy stack. The intricate interdependencies between systems and the business-critical nature of these applications directly impacted their manufacturing operations and customer deliveries.



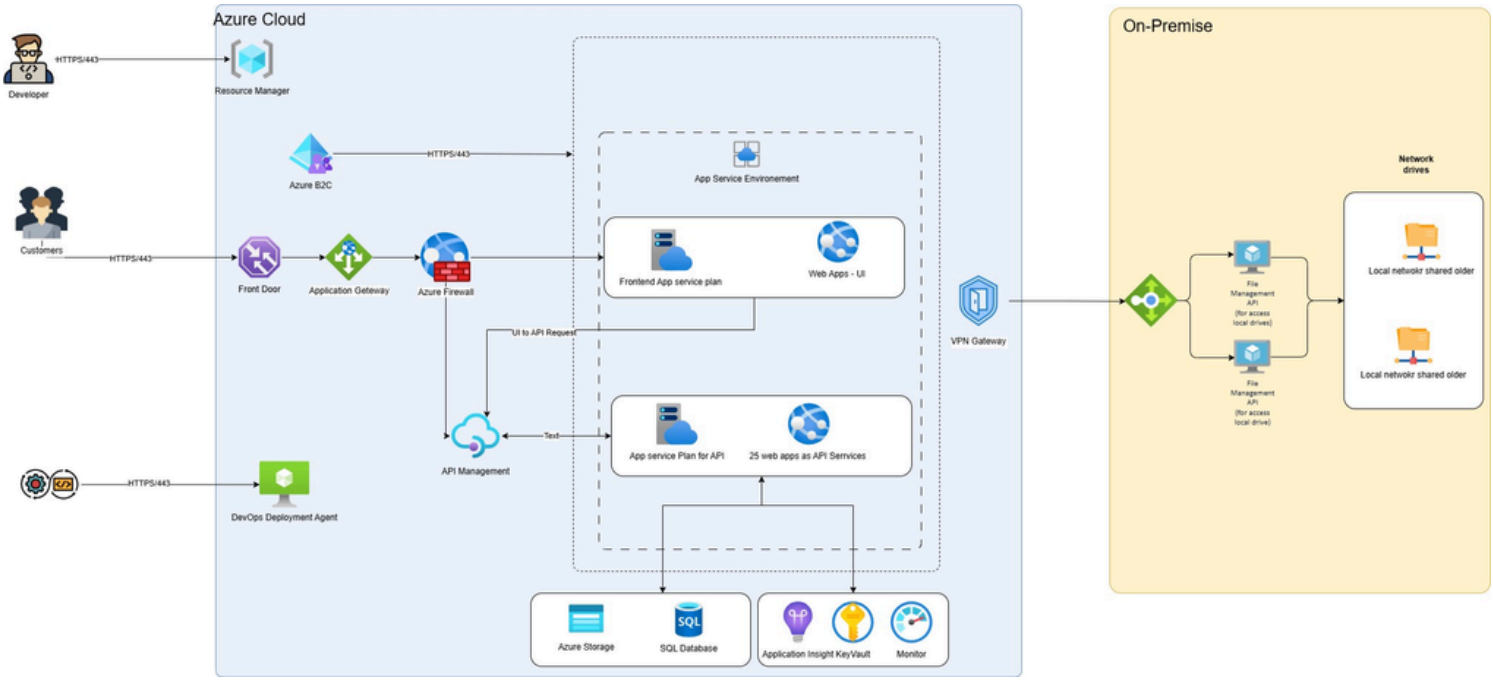
Challenges

- High operational and maintenance costs due to frequent system breakdowns.
- Outdated technology stack that is no longer supported, increasing risks and limiting enhancements.
- Lack of modern security features and non-compliance with current industry standards.
- Missing or outdated documentation, making it difficult to troubleshoot or update the system.
- Delay in issue resolution due to system complexity and lack of expert familiarity.
- Poor system performance and degraded user experience, directly affecting productivity.
- Lacked integration capabilities with modern technologies such as APIs, cloud platforms, and mobile applications.
- Delayed time-to-market for new features and updates due to rigid architecture.
- Beyond the obvious maintenance and operational costs, there were hidden expenses related to workarounds, manual processes necessitated by system limitations.
- The resources and effort spent on maintaining a legacy system often diverted attention and budget away from innovation .
- Loss of institutional knowledge as the original developers have exited the company. New developers took extended ramp-up time to understand the legacy system.

Solution

To overcome the significant challenges posed by the legacy systems, we designed and implemented a robust modernization strategy tailored to the client's critical business needs and customer base. The solution had to ensure minimal disruption while delivering maximum scalability and flexibility. Many of the existing systems functioned as core engines that were difficult to replace outright, so we developed a hybrid solution that seamlessly integrates with the existing ecosystem.

Modernized Architecture



- **Cloud Infrastructure**: Hosted on Microsoft Azure, it delivers services like App Services, Function Apps, API Management, VNet, automates backups, and alignment with ISO 27001 security compliance.
- **Scaling:** Implements both schedule-based scaling for predictable workload patterns during business hours and metric-based autoscaling that monitors CPU loads, automatically adjusting instances for optimal resource utilization and performance.
- **High Availability:** Primary/secondary region architecture ensures minimal downtime with optimized disaster recovery capabilities.
- **Enterprise Security:** Azure B2C Active Directory, Role-Based Access Control (RBAC), and secure Microsoft SSO authentication protect user data and system resources.

- **Agile Management:** Jira facilitates sprint planning and cross-functional team coordination.
- **Technologies:** Angular 17, .NET Core 8.0, C++, Azure SQL database
- **Microservices Architecture:** Enables independent development and deployment of modular services, enhancing fault tolerance and maintainability.
- **DevOps Integration:** Azure DevOps manages repositories, CI/CD pipelines, testing and release orchestration.

Results

99.9%

Uptime Achieved with Consisted Performance

High-availability Kubernetes architecture ensured minimal downtime and consistent system performance across environments.

40%

Reduction in Costs via Consolidation & Elastic Scaling

Merged into three core components and adopted elastic infrastructure to cut hardware, licensing, and maintenance expenses.

15–20%

Sales Growth Driven by Agility & Speed

Faster deployment and independent scalability helped respond quickly to market changes, boosting sales performance.

30%

Increase User Satisfaction with Modern UI/UX

A complete UI/UX overhaul enhanced usability, performance, and overall user engagement.

Monthly Feature Releases Enabled by CI/CD & Microservices

Modern Security with SSO, RBAC & Azure B2C

Seamless ERP Integration—Cloud & On-Premise Coexistence

Driving Value with Cloud-Native Application

Transformed client's legacy application by adopting a cloud-native, microservices-based architecture on Azure, resulting in significant improvements across performance, reliability, feature delivery, cost optimization, enhanced security and compliance, seamless system integration, better user experience, and increased business agility. By strategically reconstructing the application into modular components and leveraging DevOps practices, the client achieved a future-ready digital foundation that preserved existing investments while enabling innovation and responsiveness to market demands.

About Stridely Solutions

Stridely Solutions is a global technology infrastructure service provider, helping enterprises in their digital transformation journey. We assist enterprises in modernizing their legacy application to transform their business with agility and scale with future-ready innovation. From reimagining legacy systems to building resilient, secure digital ecosystems, Stridely is a trusted partner in turning enterprise challenges into opportunities for growth.

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