



Re-engineering a business critical legacy system

Mature companies around the US have spent years investing in new business capabilities. Understandably during IT budget rationalization they struggle to find ways to patch over the shortcomings of their dated IT systems. CXOs at established companies know the challenge. Cost of maintenance of critical legacy business applications are constantly increasing year on year while proficiency in legacy language programming are progressively retiring.

Our Client:

Texas Aromatics, LP, a petrochemical marketing company in the US,

specializing in aromatic feedstock and heavy fuels had been working on a dated **Delphi legacy system** for years that lacked expertise and documentation.

The Challenge

The accounting and operation application was the lifeline of the billion dollar business. A frequent untraceable error required rebooting for any further use. But the nature of the business demanded timely data entry during decisive trading hours. Multiple reboots, recalibration and duplicative work resulted in long man hours of ineffective manual work.

Solution

Legacy modernization was the key strategic imperative; the existing Delphi system was decided to be replaced by a high performing ASP.NET system. We devised a strategy to intelligently decouple the system from legacy business logic and

principles. This ensured security of the business aiming at uninterrupted service providing. We then took on to the larger battle of consolidating and re-platforming the system without accruing any technical or architectural debt. In this process we carefully took

Contributing factors

- No in-house IT support even during critical business hours
- **15% of employees' time was spent in reconciling data after system failure.** In short, it took **3 extra days** in a month to get standard work processed.
- **No time for innovation or new business expansion.**

along veterans in the company through seamless transition. The new system with latest of ASP .Net framework, Javascript, JQuery, Oracle 11g became the high performing engine under an old hood of a familiar UX; this resulted in minimal change management.



Business Impact

The new modernised system was an efficient application that was built on the strengths of the past, providing competitive advantage to the current business, and prepped for future business challenges. Some of the obvious benefits included -

- **20% lower IT support costs** - with the inclusion of a new extended team of experts for effective maintenance and scaling
- **Future mobility changes integrated** - the system now

could be efficiently migrated to the cloud

Increased in-house employee capacity for additional business growth, expansion and innovation.

Key Value Add

With over a decade of experience, credibility, skills and tools in legacy modernization we were able to accelerate further instrumental changes to the system. Some of them were -

- **No more manual data checking** - improved data quality and no room for human error
- **Improved flexibility** - environment parameters included, no more manual recalibration
- **Disaster recovery strategy** - backups and regular maintenance, a part of the new system

Conclusion

This brings to light the existence of several small to medium sized companies across US using legacy systems that are mission critical. The importance of this solution emphasises the primary need for a viable transition strategy that could be made smoothly, efficiently and cost-effectively. With the imposed fragility of operations and criticality of data, we were chosen as sustenance partners to help a billion dollar business thrive.

About Excelencia

Excelencia is an ISO 9001 certified service provider for IT Services. We are headquartered in Austin, Texas.

With over 10 years of experience serving emerging enterprises in USA, UK, Europe, Australia & Middle East, we boast of working with over 150 clients across technologies. We provide value-added solutions with a clear focus on quality and endeavor to be a long-term partner addressing all aspects of our clients.

Through a single point of accountability, we offer end-to-end, enterprise-class IT solutions, including cloud and on-premise solutions, managed services, enterprise application management and other professional services.