



The Power of Differentiation

Global Engineering Corporation launches ground-breaking Energy Trading System to increase market share ahead of competition

The development has been a highly rewarding experience allowing us to bring together a unique mix of technologies in a truly world class product.

Madhura Godbole, Project Manager





Our Client

The customer, a global brand recognised as a leading engineering business, needed an energy trading system to acquire greater market share.

To do this they wanted a completely new design built on leading edge technologies to meet with stringent regulations and demands in the market.

Industry Solution

Using our knowledge and experience in a wide range of application development and integration engagements, built over more than 10 years; we could offer a highly Tailored Solution which delivered on all the specific critical success factors, resulting in a market leading solution offering great end user satisfaction.

THE CHALLENGE

A 10-year-old legacy product hard-coded to UK market standards and constrained by a range of ageing coding technologies; driving ever increasing costs and not able to keep pace with the competition.

Resulting in the erosion of market share, reducing profit margins and increasing business risk.

THE SOLUTION

Based on a Microsoft core coupled with other leading edge tools, Mercurius developed a best in class solution able to address all the key challenges and building a foundation for long-term growth.

A concept built around a robust, resilient and completely unified client with a fully reusable library of globally standardised components.

All delivered with 100% multi-browser compliance.

THE RESULTS

A fault tolerant, scalable and highly extensible solution able to deliver significant performance improvements.

The system can now be deployed with automatic set-up, accelerating implementation times, is fully backwards compatible and provides the end user with a new level of control and customization.

With an optimised UI layout built around the different trading roles, the customer is now able to market a significantly improved solution to the industry. In turn, this has led to a better level of service and increases in customer satisfaction.

BENEFITS

- ✓ Global capability
- ✓ Unified Client, multiple modules, UI consistency
- ✓ Robust, resilient and fault tolerance extensibility
- ✓ Best in class capability leapfrogging competition
- ✓ Built in upgrade capabilities





OVERVIEW

Our Customer was facing an increasingly difficult future with regard to the ageing product.

After more than 12 years of continued enhancement without significant redesign or upgrade the system was becoming fragile, costly to implement and support and had no long term development options.

The characteristics of electricity mean it is almost inevitable that quantities of energy generated and consumed will deviate from those for which contracts have been struck.

So, central arrangements are required to – meter the quantities produced and consumed by each party, compare these with the quantities covered by bilateral contracts; and provide financial settlement for the differences - these are collectively referred to as imbalance settlement. Unchecked, this would result in system frequency falling or rising to an unacceptable degree.

AN INDUSTRY SOLUTION

The system was built on a distributed architecture with behavioural difference across and between nodes.

This ensures local autonomy, giving end users operational assurance even if any of the distributed nodes or links fail.

A critical operational environment requires a fault tolerant system, achieved by coupling reliable messaging between processes with high service availability using failover mechanisms within a clustered system environment.

Built on a web-based architecture leveraging Rich Internet Application concepts, the system provides a user experience that could not previously be achieved.

The system is architected to be database agnostic and run on any Microsoft platform. All technology and frameworks are either provided by Microsoft themselves or supported on their platforms.

Following an SOA ensures the solution is flexible and maintainable through loosely coupled reusable components.

Overall Key To Success

By working with Mercurius to provide a Microsoft based tailored solution, our customer has been able to take their industry experience and knowledge and turn this into a world-class solution.

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