

Case Study

Windchill implementation and upgradation for a Tier-1 global automotive supplier

Business Situation

A Tier-1, global automotive supplier operating in 15 business segments and 150 manufacturing facilities needed to enhance its legacy system and improve its ability to plan and manage its “Engineering Change Request” process. To do so, it wanted to automate several manual processes, and upgrade its aging legacy PDM system. Its goals included improving response time, securing intellectual property and improving collaboration within the organization, which featured 4,000 design engineers working concurrently, across the globe.



Although the objectives were straightforward, the organization faced several challenges. For example:

- Product development processes were not consistent across locations and product lines
- The company used multiple systems to manage product information, leading to duplication of parts and subassemblies
- Cross-enterprise engineering metrics collection and monitoring were inconsistent
- Collaboration between cross-functional teams was inadequate
- Engineers could not access the legacy system from different locations
- No system could assess the impact of design on product and development cost

Mahindra Satyam Solution

The customer partnered with Mahindra Satyam in an effort to solve these problems. At the outset, the Mahindra Satyam team implemented Windchill's “PDM, Product View, Project Link” module (v6.2.6) to streamline the engineering change management process. The team also enhanced Windchill to provide product and development cost analysis based on design changes. Then, in a phased approach, it rolled out Windchill to multiple locations and business segments. After upgrading the standard Windchill 6.2.6 to Windchill PDMLink 8.0, team members began to migrate all enhancements into the newer version and provided Level 3 technical support. The project leveraged an optimal mix of onsite/offshore professionals, and included development, implementation, enhancement and upgradation.

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Benefits

As a result of its work with Mahindra Satyam, the client's system became accessible from multiple locations. Its centralized repository for engineering data significantly reduced duplication in parts and subassemblies, which saved considerable time, money and effort. Moreover, enhanced cross-functional collaboration reduced 25 percent of new product development-related communication delays. At the same time, engineering change process cycle time was expedited by 30 percent. Furthermore, the supplier was able to establish a unified engineering process across the entire organization. Another major benefit was that the organization is able to keep its intellectual property secure and safe.

Mahindra Satyam's Product Lifecycle Management Practice

Mahindra Satyam's Product Lifecycle Management Practice helps customers bring their products and services to market more quickly. The team manages clients' product portfolios by capturing customer requirements and integrating product design with product launch to predict demand and performance and simulate supply and manufacturing capacity. Mahindra Satyam's PLM consultants provide comprehensive, end-to-end services via a proven onsite-offshore delivery model that helps customers realize business continuity around the clock and throughout the year.