

Case Study

Implementing and upgrading eMatrix for the world's largest electronic component manufacturer

Business Situation

The world's largest manufacturer of passive and electronic components—featuring five major business segments and operations in more than 60 countries had several engineering programs in progress at once. In fact, these programs had an astounding 120,000 product lifecycle management users. These numbers were enough to overwhelm the company's legacy system and manual processes, which had to plan, execute and monitor engineering projects. Its IT landscape comprised SAP ERP, eMatrix Engineering Central, MS Project and Legacy Document System.



The overtaxed legacy system could not effectively plan and manage engineering projects and processes, new product development, engineering change management or product program management. Moreover, the business segments used non-standard, localized solutions (such as spreadsheets and project plans) to manage engineering projects. And a significant percentage of product/project information was not reused between business segments or regions. Also, the manufacturer could not adhere to an engineering “phase-gate approval” process.

Mahindra Satyam Solution

To streamline project planning, execution and monitoring, the customer engaged Mahindra Satyam, which worked with numerous business segments to ensure acceptance, and then implemented a pilot eMatrix 10.6 solution, including Program Central, a PLM solution. Next, Mahindra Satyam upgraded eMatrix Program Central and Engineering Central from 10.6 to 10.7 and enhanced the eMatrix 10.7 solution to cater to additional needs of global PLM users. The team rolled out Program Central to several locations and business segments in a phased manner, all the while integrating them tightly with other systems, such as SAP, Document Management and Engineering Change Management. Furthermore, Mahindra Satyam trained the existing PLM users and helped them adapt to their new environment seamlessly.

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Benefits

By partnering with Mahindra Satyam, the client has reaped numerous benefits. For example, the centralized shared eMatrix system, with its single data source, reduced duplicative efforts, errors and integrity issues. Additionally, the manufacturer has a strong foundation for a single, integrated PLM system. Besides improving the productivity of engineers and reducing engineering costs, the client also has expedited engineering project cycle time. Furthermore, the executive team gained excellent visibility into project portfolio for effective business planning and shortened time-to-market for new product development.

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.