Customer Success

Streamlining manufacturing process planning for an off-highway equipment manufacturer

The customer was using a mainframe based system to manage the production of manufacturing process plans. The standalone system had several gaps in linking design objectives to manufacturing processes, imposing significant challenges for planners to determine manufacturing processes for complex product features. Geometric architected a robust solution on a leading PLM platform to integrate the manufacturing process planning with product design processes. The solution converted standard-based design specifications into process plans, automating underlying operations and integrating associated data with PLM, ERP and MES systems. The solution enables standardization and reuse of manufacturing process plans globally, bringing concurrent engineering into practice, thus saving significant time in generation of process plans and reducing the time to market.

Application Management Services for an Aerospace OEM

The customer with a complex mix of highly customized packaged and homogenous global engineering IT landscape, was seeking to consolidate application & development support with a single end-end service provider. Most of the applications developed by various erstwhile suppliers had little or no documentation. Geometric leveraged its state of the art knowledge transition framework to take over 650 CAD-DMU applications. Geometric took over the program from eight different suppliers across four countries with complete ownership to optimize the supply chain and helped bring in operational efficiencies through standardization, reuse and leverage of best practices with continuous process improvement. Judiciously administered operating and fiscal models helped the customer improve productivity by 30% and optimize costs by 50%.

Efficiencies in product development for a leading Japanese automotive OEM

The customer's goal of achieving efficiencies in the product development cycle was challenged by unavailability of accurate product related business information. Geometric provided a scalable, single window solution on ENOVIA V6 to manage the product development information. The solution captures the intent across multiple processes followed on scattered legacy and homegrown systems across geographies. A key objective was to unify disjointed BOM processes managed on more than ten legacy systems, enable standardization and reuse of manufacturing process plans globally, bringing concurrent engineering into practice, thus saving significant time in generation of process plans and reducing the time to market.

About Geometric

Geometric is a specialist in the domain of engineering solutions, services and technologies. Its portfolio of Global Engineering services, Product Lifecycle Management (PLM) solutions, Embedded System solutions, and Digital Technology solutions enables companies to formulate, implement, and execute global engineering and manufacturing strategies aimed at achieving greater efficiencies in the product realization lifecycle.

Listed on the Bombay and National stock exchanges in India, the company recorded consolidated revenues of Rupees 10.20 billion (US Dollars 187.57 million) for the year ended March 2013. It employs over 4600 people across 13 global delivery locations in the US, the UK, France, Germany, Romania, India, and China. Geometric was assessed as CMMI 1.1 Level 5 for its software services and is ISO 9001:2008 certified for engineering operations. The company’s operations are also ISO 27001:2005 certified.

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End-to-End PLM Services on a Global Scale

Geometric Overview
- Exclusive focus on the product realization lifecycle - engineering to manufacturing domain
- Services and solutions portfolio
  - Engineering IT
    - PLM
    - CAX
    - Digital Manufacturing
    - Interoperability
  - Engineering services
    - Product engineering
    - Manufacturing engineering
    - Industrial engineering
  - Electronics & embedded systems
  - Products & technologies
- Over 4600 employees across the globe
- 13 delivery locations across US, UK, France, Germany, Romania, India and China

Development synergies with engineering domain knowledge, PLM technology strengths and consulting expertise for

Application Management Services
Contemporary engineering and manufacturing IT landscapes are highly complex with a mix of packaged and home grown custom applications. Managing these applications that enable core product development, requires significant understanding of applications as well as the domain. Moreover, if combined with other generic IT applications, and supported by the same team, it could lead to greater challenges.

Geometric’s Application Management Services 4E (AMS4E) is a maturity based framework based on well-defined 4E methodology, which is designed to enable, ensure, enhance and evolve the targeted PLM, engineering IT and manufacturing IT applications. The objective of the methodology is to improve the business value of these applications at optimized cost, clearly identifying the issues at each stage of maturity, the appropriate services, and benefits to be gained.

PLM Solutions for Globally Integrated Enterprise

Strategic Technology Alliances
- DS Gold Partner
- Product development for all Dassault Systèmes brands
- A joint venture, 3D PLM Software Solutions Ltd, established in 2002, with 58% ownership by Geometric
- Strategic relationship since 1998
- Multifaceted Partnership – Product R&D Foundation, Consulting & SI and Alliance Partner
- Software R&D and leading to Co-innovation and Customer Success
- Gold Tier Partner since 2004
- Access to PTC’s Technical Support and knowledgebase

PTC
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Siemens
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Integrated Process Planning (IPP)
Bridges the design and manufacturing functions of the organization by converting standard-based design specifications into process plans, and integrating new orders along with their process plans into existing production schedules

Cost Estimation Types
- Quoted
- Estimation
- Guesstimate
- Actual

Early Product Cost Management
Visibility into total product cost at initial stages of product development. Captures estimated or quoted cost, assesses the cost confidence, and provides a calculation playground by configuring the product structure.

Engineering Checklist
A PLM based solution designed and deployed to track and manage verification and validation tasks and results. It can be seamlessly integrated with other functions like Issue, Change and Quality Management.
End-to-End PLM Services on a Global Scale

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Application Management Services

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Developing synergies with engineering domain knowledge, PLM technology strengths and consulting expertise for

- Aerospace & Defense
- Automotive
- High-Tech & Electronic
- Machine Tool
- Off Highway

Strategic Technology Alliances

- Siemens: PLM Software
- PTC
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PLM Solutions for Globally Integrated Enterprise

- Cost Estimation Types
  - Quoted
  - Guestimate
  - Actual
  - Feature Based

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