CASE STUDY

POINTING THE WAY TO THE FUTURE OF MANUFACTURING

SEVENTH FRAMEWORK PROGRAMME

Energy management specialist streamlines product development process using a system simulation approach

Schneider Electric

Schneider Electric www.schneider-electric.com

Schneider Electric SA is a France-based multinational corporation that specializes in electricity distribution, automation management and produces installation components for energy management.

Schneider Electric has been using simulation tools for a long time. The company has well-established solutions for each specific physical domain. Taken individually, each kind of simulation software helped the company to solve issues. However, Schneider Electric recognized that they needed a standard tool covering all domains to support them in:

- Making the product synthesis with different physical couplings
- Evaluating the impact of a design choice on the overall system
- Comparing the efficiency of different design architectures
- Recording all engineering knowledge gained during the design phase
- Rapidly evaluating evolving demands for product features

Schneider Electric had three main objectives for this analysis: first, to understand how it would have helped to make greater use of a multi-domain system simulation tool during the research and development (R&D) phase; second, to track the effectiveness of electronic simulation; and third, to provide a simulation package to continuous engineering team for the products. Having this knowledge would help the engineering team rapidly and easily perform an analysis on evolving requests from customers.

Simulation and Forecasting Technology role
Multi-domain system for R&D, evaluating impact of design choice, recording engineering knowledge

Sector
Engineering and Electronics

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