3DEXPERIENCE®

SMARTER, FASTER, LIGHTER INDUSTRY SOLUTION EXPERIENCE

Orchestrate Engineering Teams and Deliver Ideal Mechatronics

IMPROVE PROFITABILITY BY ACCELERATING TIME-TO-MARKET AND REDUCING ENGINEERING COSTS

Smart homes, smart phones, smart appliances. Our daily environment is transforming into a system of intelligent, multifunction, and connected systems. Successfully designing and manufacturing complex, intelligent mechatronics for rapidly growing markets requires an integrated engineering approach across the extended enterprise. **SMARTER, FASTER, LIGHTER Industry Solution Experience**, powered by Dassault Systèmes **3D**EXPERIENCE® platform, provides process acceleration capability to help bring exceptional design and technology rapidly to market. Companies can control engineering costs while improving their product development capacity.

Key Benefits:

- Grow product desirability and customer loyalty
- Achieve the right design the first time
- Innovate consumer experiences, not just product features
- Reduce time-to-market and product defects

ENHANCE MARKET PENETRATION BY TRACKING AND IMPLEMENTING CUSTOMER FEEDBACK

Customer loyalty often depends on your responsiveness to requests and feedback. However, this valuable information along with other potentially valuable ideas can be lost during a complex development process. **Traceable Requirement Management** helps ensure that organizations faithfully implement customer feedback and critical requirements that could add dramatic value to new products. Requirements can be comprehensively captured, delegated, tracked, and verified so the final design reflects the voice of the customer. Clear requirements visibility allows engineers to focus limited resources, minimizing design cost and time. Companies can gain improved customer loyalty and greater market leadership.

REDUCE LATE DESIGN MODIFICATIONS WITH EARLY SYSTEMS-CENTRIC TESTING AND VERIFICATION

Today's consumers value multifunction devices that provide a rich range of experiences. As a result, system architecture design of electronic products is becoming complex and time-consuming. **System Architecture Design & Simulation** helps companies master functional verification for complex systems. It provides system modeling and behavior simulation capabilities to detect design errors in the early stages of a project. In addition, engineers can master a systems development process that helps ensure traceability, from needs identification to final product verification. Engineers can detect and make needed modifications as early as possible to avoid time-consuming design changes late in development.

DRIVE MECHATRONICS EXPERIENCE INNOVATION THROUGH MULTI-DISCIPLINE DESIGN TRANSPARENCY

Every manufacturer that designs or produces electronic devices wants to be recognized as their market's innovation leader. The emerging Internet of Things (IoT) promises dramatic new business opportunities, but companies are struggling to create new, game-changing experiences, often introducing only incremental mechanical or electronics enhancements. The challenge is that often true innovation must be at the systems level, not at the component or function level. To create dramatic consumer experiences, integrated mechatronics-oriented systems innovation is required. **Concurrent Hardware Design** enables systems-level mechatronics innovation by enabling top-level concurrent mechanical and electronic design management. It bridges the gaps between engineering disciplines by synchronizing mechanical and electronics development around a unified product experience definition. Dramatic new experiences can be designed right the first time, within existing budget and resources.

REDUCE PRODUCT RETURNS AND WARRANTY COSTS WITH IMPROVED VIRTUAL PRODUCT TESTING

Product returns and customer complaints can damage a company's brand reputation and revenues. To avoid product defects and recalls, engineers need to perform more testing on each design while still completing projects on time and within budget. **Product Testing & Simulation** provides engineers with a deeper understanding of product behavior in less time than physical prototyping. This allows them to quickly evaluate the impact of different product options on end-product quality. Companies can reduce time-to-market and product cost while improving product quality and innovation.

For more details about **Smarter, Faster, Lighter Industry Solution Experience**, connect to www.3DS.com/high-tech/

Our **3D**EXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the **3D**EXPERIENCE® Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 190,000 customers of all sizes in all industries in more than 140 countries. For more information, visit **www.3ds.com**.

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