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SYSTEMATIC APPROACH OF THE PRODUCT LIFECYCLE COMPONENTS

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Rezumat. Astăzi, companiile din numeroase industrii se află pe punctul unei revoluții în dezvoltarea produselor. Încorporarea soluțiilor software și electronice în produse mecanice aduce un val de inovații, produsele devenind astfel sisteme inteligente, care sunt interactive, proactive, schimbătoare și actualizabile. Atâta timp cât software-ul și electronicele aduc atât de multă valoare noilor produse, marile companii au început să vadă și să dezvolte produsele ca pe niște ansambluri. Companiile de top au trecut la o abordare sistematică care impune dezvoltarea componentelor mecanice, electronice și software simultan încă de la stagiul de concept continuând pe tot parcursul ciclului de dezvoltare. Acest articol își propune să abordeze noua viziune a conceptului PLM pornind de la influențele aduse de evoluția internetului, procesul de globalizare pentru reducerea costurilor de fabricație și noilor tendințe de lucru colaborativ.

Abstract. Today, companies across numerous industries find themselves on the cusp of a product development revolution. The incorporation of software and electronics into mechanical-based products is driving a wave of new innovation as products become more like intelligent systems that are interactive, proactive, changeable and upgradable. With software and electronics driving so much new product value, leading companies have begun to view and develop their products as systems. Top companies take a systems-based approach that requires simultaneous and connected development to occur between software, electronics and mechanical functions at the earliest design stages and continue throughout the product development cycle. The purpose of this article is to address the new vision of the PLM concept starting from the impact that intelligent systems, internet, globalization and collaborative engineering brings.

Keywords: Product Lifecycle Management, information management, product data management, concurrent engineering, design engineering

1. Introduction

Lots of the terms and acronyms that are in circulation today include words that are either vague or imply time dependence. For a term to gain acceptance and wide usage over a long period of time, it must be unambiguous and stable.

This article provides the new approach of PLM that clearly define the scope and the future of PLM.

The key aspect of defining the new approach of PLM 2.0, as is defined by Dassault Systemes, is the separation of the product information management from the information processing. The document also proposes that since the scope and

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