
Life cycle management of sophisticated engineering systems: Development history, state of the art and implementation at the machinery manufacture

© E.I. Kuzin¹, V.E. Kuzin²

¹Bauman Moscow State Technical University, Moscow, 105005, Russia

²JSC "Research and production corporation "UralVagonZavod",
Nizhniy Tagil, 622007, Russia

The paper reviews the history of development in retrospect and the current state of life cycle management of sophisticated engineering systems. The methods of the processes and data organization across the enterprise within the concept of life cycle support of sophisticated engineering systems are considered along with the methodology describing the architecture of complex organizational systems. We formulate and summarize the principles, methodologies, standards and technologies. We also present an example of the concept implementation at UralVagonZavod.

Keywords: *sophisticated engineering systems, management of product life cycle, CALS-technologies, enterprise architecture, business process management, single information space.*

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Kuzin E.I., Cand. Sci. (Eng.), Associate Professor, Department of Automated Control Systems, Bauman Moscow State Technical University. Research interests: control of sophisticated engineering systems, CALS-technologies.

Kuzin V.E., Head of the Department of Complex Automation, JSC “Research and production corporation ‘UralVagonZavod’ ”. Research interests: control of sophisticated engineering systems, simulation, business process management.
