COLLABORATIVE SIMULATION DATA MANAGEMENT SYSTEM

RAJEEV MOHAN KUKREJA[1], S. K. SHARMA[2] AND RANJIT SINGH[3]

[1]Research Scholar, NIT Kurukshetra,162A, Sector 31,Faridabad – 121003, India
[2]NIT Kurukshetra,NIT Campus, Kurukshetra, India.
[3]Executive Secretary & Programme Director,
ISTE, New Delhi,D 42, Ayudh Vihar, Sector 13

Abstract

Communicating and sharing information through information technology tools have become common practice in all leading enterprises. Communication and data, process storing applications are also influencing the simulation process. Driven by the need to compete in a global economy, companies are using applications to concurrently collaborate on design & simulation problems. Global collaborative engineering helps to decrease time to-market while also decreasing output costs. Computer-aided Engineering developers have recognized the potential of the IT for collaborative engineering and have implemented applications for the managing, sharing and communicating of simulation related data. Commonly these applications are termed as Simulation Data Management, Simulation Lifecycle Management, Engineering Knowledge Management, virtual build & test management and simulation process and data management by various CAE companies. For the purpose of this paper these applications will be termed as Simulation Data Management (SDM). This paper reviews collaborating tools of Simulation Data Management Systems available from four leading computer-aided design & engineering companies: Dassault Systems, MSC Nastran Corporation, ANSYS Inc & Siemens AG. Commonly available & important collaborating functions and the potential impact those will have on simulation professionals and industries are discussed.