



SAMTECH launches *Transparent Extended Analysis CAA V5 Based (T.E.A.)*

Liège, Belgium – November 19th 2002 - SAMTECH s.a., the leading European Company for the development of Integrated CAE Solutions, today announced the launch of its **Transparent Extended Analysis CAA V5 based (T.E.A.)** product based upon the Dassault Systemes CAA V5 open Architecture (Component Application Architecture)

With **T.E.A.**, SAMTECH enables CATIA V5 users to perform advanced non-linear mechanical analysis using **SAMCEF Mecano** and, in the near future, thermal analysis using **SAMCEF Thermal**. These new products will allow designers, mechanical engineers, stress engineers and thermal engineers to predict the complete functional performances of their products, very early in the design process and directly from their familiar CATIA V5 environment.

T.E.A. CAA V5 Based targets design and analysis activities of any customers from the whole mechanical industries (Aeronautic, Space, Defense, Ship Building, Energy, Car, Trucks, Railway, Sport industries, ...).

TEA Mecano (pronounced like "**T Mecano**" with the "T" of Transparent) is based on **SAMCEF Mecano**, the non-linear mechanical module of the general Finite Element package SAMCEF. Flexible-flexible contact conditions with large relative displacements, large deformations and elasto-plastic materials are the main features of this first release. Further advanced behavior such as, i.e. hyper-elastic, visco-elastic, visco-plastic, materials, rigid and flexible kinematical joints will be very soon integrated in the forthcoming releases.

Fully associative and completely integrated with the CATIA Generative Part Structural Analysis (GPS), **TEA Mecano** enables CATIA V5 users to quickly produce non-linear models by adding specific features to an existing GPS model. With **TEA Mecano**, the CATIA V5 users benefit of extended non-linear solving capabilities in a transparent environment, speeding up the design work and eliminating the expensive iterations during the design process thanks to the use of a single user interface for the geometry definition and the Finite Element pre-and post-processing.

"**TEA Mecano** gives a first opportunity to SAMTECH to demonstrate to the whole CATIA V5 community its high level expertise in Scientific Software development," said Eric Carnoy, Chief Executive Officer of SAMTECH. "Thanks to the generative CAA V5 **TEA Mecano** will allow significant costs reduction of non-linear analyses and design iterations."





"SAMTECH is the first Dassault Systemes' partner to deliver a non-linear mechanical analysis solution fully integrated with CATIA V5,"said Gérard Lecina, director CATIA CAE Division, Dassault Systèmes". The **T.E.A.** product confirms the power and the openness of the CAA V5 architecture and its ability to support all analysis processes, even the most advanced ones. Moreover, the broad process coverage of V5 based analysis solutions enables 3D PLM customers to complete their engineering processes in a single environment."

About SAMTECH

Founded in 1986 from the Aerospace Laboratory of University of Liège to allow the development and commercialisation of the general purpose Finite Element Analysis package SAMCEF, SAMTECH is now the leading European Company for the development of Integrated CAE Solutions. SAMTECH provides its expertise to industries (SNECMA, AIRBUS, EADS, ALENIA, ESA, SONACA, ABB, PSA, ...) willing to increase their competitiveness by decreasing design time and costs and optimizing their methodologies. In order to answer this objective, SAMTECH has structured its competences around two main complementary activities:

- The "**Software edition**" activity which includes the development of scientific software tools like the general FEA package SAMCEF or the open object oriented optimization platform BOSS quattro.
- The "**Engineering services**" activity which provides customized solutions such as consultancy, intellectual services and on-the-road projects. It includes also assistance to prime contractors and high-tech subcontracts to engineering offices, which belongs to industries, as well.

About Dassault Systèmes

As world leader in 3D PLM (three-dimensional Product Lifecycle Management) solutions, the Dassault Systemes group brings value to more than 55,000 customers in 80 countries. A pioneer in the 3D software market since 1981, Dassault Systemes develops and markets 3D PLM application software and services that support industrial processes and provide a 3D vision of the entire life cycle of products from conception to retirement. Its offering includes 3D PLM integrated solutions for product development (CATIA, DELMIA, ENOVIA, SMARTEAM), mainstream product design tools (SolidWorks), and 3D components (SPATIAL). Dassault Systemes is listed on the Nasdaq (DASTY) and Euronext Paris (#13065, DSY.PA) stock exchanges.

For more information, visit <http://www.3ds.com>

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