



SAMTECH to release SAMCEF Field V5 at MICAD 2005

Liege, Belgium – 29th of March 2005 - SAMTECH, the European technology leader for the development of Integrated Computer Aided Engineering (CAE) solutions announces the presentation at MICAD 2005, of SAMCEF Field V5, the new release of its CAE simulation environment. SAMCEF Field V5 high level of integration allows users to migrate from a simple linear generic purpose FE Analysis to the most complex multi-physics applications without leaving their preferred simulation environment.

The new version 5.1 of **SAMCEF Field** fully integrated modeling and numerical simulation environment will be presented by SAMTECH at upcoming MICAD 2005 exhibition in Paris. From imported CAD geometries, **SAMCEF Field V5** offers powerful modeling and meshing tools, covering the linear and non linear thermo-mechanical structural FE Analyses integrated with multi-body simulation, more and more mechatronics applications with digital control and the first multi-physics solvers.

One major new feature of **SAMCEF Field V5** is the management of hierarchical models ("Parts"). First introduced in **SAMCEF Field V4** in the particular context of Super-Element creation and utilization, the notion of "Part" has been extended in version 5 to manage complete models, including geometries, meshes and general analysis data. Any **SAMCEF Field** model can now be imported as a "Part" in another model for connection with other components. New tools have been implemented to allow Parts duplication and graphical manipulation such as translation, rotation, mirroring, manual positioning, ...

Other major novelties relate to the new professional solution **SAMCEF for Rotors** and to the new multi-physics solver **OOFELIE Vibroacoustics/Piezoelectric**, now being fully supported by **SAMCEF Field V5**.

SAMCEF for Rotors is a Finite Element based solution specifically dedicated to the dynamic analysis of rotating machineries comprising fixed (stator) and rotating (rotor) components as well as linking devices (bearings, bushings, transmission systems, ...).

OOFELIE Vibroacoustics, driven by SAMCEF Field, provides a coupled Finite Element/Boundary Element based methodology allowing to predict the acoustic and vibro-acoustic behavior of interior, exterior and mixed interior-exterior fluid regions and their interaction with structures. Typical applications can be found in the aeronautic, automotive, equipment or building industries and include noise radiation or transmission analysis, noise reduction, car compartment noise, engine/motor noise, ...

OOFELIE Piezoelectric, driven by SAMCEF Field, offers advanced capabilities for the modeling and static, modal, harmonic and transient coupled analyses of piezoelectric systems such as sensors and actuators, ultrasonic motors and accelerometers.

"SAMCEF Field V5 highly integrated environment has been designed to allow continuous and fast implementation of CAE solvers. A lot of generic linear and non-linear FEA capabilities were already made available in the previous versions thanks to the considerable efforts made since 1998 by our development teams", said Didier Granville, SAMTECH Chief Marketing Officer. "SAMTECH has built a solid base of very advanced numerical functionalities in order to progressively meet customers complex "professional" requirements, on one hand, and to comfortably integrate further multi-physics disciplines, on the other hand."



About SAMTECH

SAMTECH s.a. is the European leading provider of Computer Aided Engineering (CAE) software for Finite Element Analysis (FEA) integrated with Multi-Body Simulation (MBS) and Multi-Disciplinary Optimization (MDO). Founded in 1986 from the Aerospace Laboratory of University of Liege (LTAS), SAMTECH develops and markets the general-purpose Finite Element Analysis code **SAMCEF**, the Multi-Disciplinary Optimization platform **BOSS quattro** and, through its specialized subsidiary Open Engineering and a network of universities and research centers, the multi-physics environment **OOFELIE**.

SAMCEF original developments were undertaken at LTAS in 1965. Since SAMTECH creation in 1986 the invaluable know-how and expertise built up by LTAS researchers and scientists has been continuously enriched by highly skilled development teams. Today, SAMTECH, offers very competitive industrial general-purpose software products for linear FEA (**SAMCEF Linear**), and non-linear FEA/MBS thermo-mechanical problems (**SAMCEF Mecano & Thermal**). SAMTECH provides industries also with dedicated Professional Solutions addressing specific applications to be solved in a particular industrial environment and based on the relevant engineering disciplines. These core products answer to a wide range of industrial needs from the preliminary phases of design to the most advanced verification analyses. The software technology of SAMTECH has an unsurpassed reputation for its quality and reliability. It has been adopted by many major companies across all engineering disciplines as an integral part of their design process.

SAMTECH Group currently employs over 180 people, with 9 direct offices in Belgium, France, Germany, Italy and Spain for technical support, sales and services, plus a network of technically advanced distributors in other markets. SAMTECH is a Dassault Systemes partner for the development of its products embedded in or connected to CATIAV5. SAMTECH is certified to ISO9001:2000 quality standards and operates more and more through a network of subsidiaries and representatives in key locations around the world.

Visit <http://www.samcef.com> for further details on SAMTECH Products/Services offer!

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