

PRESS RELEASE

Software Cradle selected Optimus Technology to embed in its SC/Tetra and scSTREAM thermal-fluid analysis tools

Leuven (Belgium), February 4, 2015 – Noesis Solutions and Software Cradle Co. Ltd., Osaka, Japan, today announced that Software Cradle selected the Optimus engine from Noesis Solutions to embed in its SC/Tetra and scSTREAM simulation software tools—to provide comprehensive market-leading design space exploration capabilities. Under the terms of the agreement, Noesis Solutions will incorporate its Optimus multi-disciplinary design optimization software into Software Cradle’s SC/Tetra and scSTREAM environments, offering CFD engineers user-friendly yet powerful means to explore the design space and optimize thermal-fluid product performance. The new Optimus-powered Software Cradle tools are scheduled for commercial release in the course of 2015.

Adding market-leading design exploration and optimization

Noesis Solutions’ flagship product Optimus, developed since 1997, offers validated and robust design exploration and optimization technologies that are fully OEM ready. Optimus is already integrated into the simulation software tools of leading worldwide vendors. And today it is announced that the Optimus engine will become available in Software Cradle’s SC/Tetra and scSTREAM thermal-fluid analysis tools. This way Computational Fluid Dynamics (CFD) engineers will have Optimus’ powerful design of experiments (DOE), response surface modeling (RSM) and (robust) design optimization capabilities available at their fingertips.

SC/Tetra and scSTREAM are renowned for analyzing thermal-fluid product performance, based on unstructured mesh and Cartesian mesh models respectively. With Optimus incorporated into these simulation tools, engineers specify design objectives and constraints and instantly have Optimus direct a coordinated and automated thermal-fluid simulation campaign without setting up a workflow manually. This approach rapidly explores the design space up-front and efficiently optimizes model configurations toward the best possible CFD performance, driven by inexpensive-to-use (RSM-based) design optimization algorithms.

The Optimus-powered Software Cradle tools automate model parametrization throughout the thermal-fluid design optimization process. Engineers can readily visualize the design space and evaluate it using dedicated Optimus data mining capabilities. Optimus’ graphic post-processing toolset enables engineers to gain deeper insight into the influence of individual parameters and constraints. In addition these tools accelerate what-if analyses thanks to parameter propagation. Incorporating Optimus into SC/Tetra and scSTREAM allows for more thorough and efficient route to tackling CFD engineering challenges in automotive, architectural, chemical, biomedical, electrical, and electronic industry sectors.

Bringing CFD-optimized products to market faster

“Superior product performance and minimized development time are critical in today’s competitive environment,” says a Software Cradle representative. “CFD engineering teams deserve the best possible solution to efficiently deliver benchmark products to their customers. With Software Cradle’s SC/Tetra and scSTREAM thermal-fluid analysis tools powered by Optimus technology, manufacturers are able to bring higher value-adding CFD products to market faster.”

“We are pleased that Software Cradle has chosen our industry-proven Optimus technology to extend its SC/Tetra and scSTREAM thermal-fluid analysis tools,” says Naji El Masri, Noesis Solutions CTO. “Thanks to its robustness, Optimus technology is increasingly being adopted by engineering software vendors like Software Cradle to strengthen their simulation solutions. By incorporating Optimus design exploration and optimization capabilities into SC/Tetra and scSTREAM, users can be confident to identify the optimal CFD design configurations efficiently.”

About Noesis Solutions

Noesis Solutions is a simulation innovation partner to manufacturers in automotive, aerospace, and other engineering-intensive industries. Specialized in simulation process integration and numerical design optimization, its flagship software Optimus helps customers adopt an 'Engineer by Objective' development strategy to resolve their toughest multi-disciplinary engineering challenges. Optimus identifies the best design candidates by managing a parametric simulation campaign that orchestrates customers' software tools. Customers using this approach report design time savings averaging over 30%, while achieving 10% or more product performance improvements.

Noesis Solutions operates through a network of subsidiaries and representatives in key locations around the world. For more information, please visit www.noesisolutions.com.

About Software Cradle

Software Cradle is a leading provider of Computational Fluid Dynamics (CFD) software including SC/Tetra (unstructured mesh) and scSTREAM (Cartesian mesh). These software products are renowned for ease of use, professionally spanning the engineering design process from meshing to post processing. Software Cradle has an extended customer base covering SMEs and large manufacturing accounts in Japan. Furthermore the software provider set up a subsidiary in North America and a worldwide network of sales and services distributorships. www.cradle-cfd.com.

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