

ESI releases its newest version of Virtual Performance Solution

ESI's end-to-end solution for Virtual Prototyping increases efficiency by supporting modular assembly

Paris, France – January 13, 2015 – [ESI Group](#), pioneer and world-leading solution provider in [Virtual Prototyping](#) for manufacturing industries, announces the latest release of its flagship software [Virtual Performance Solution](#). A benchmark in the automotive industry, **Virtual Performance Solution empowers manufacturers to evaluate and optimize product performance across multiple domains, so they can develop higher performance products at lower cost and in less time.**

By using one central simulation model, or 'single-core model' that can integrate all manufacturing properties and multi-domain simulation data, companies using [Virtual Performance Solution](#) can efficiently assess trade-off between different engineering domains. This ability is an important enabler of innovative product design and provides particular benefit for companies who must sustain high product performance as they adopt new, lightweight materials.

Working on the same (single-core) model from end-to-end enables interactions between departments and supports faster design iterations; contributing to reduced development costs and time. Using a realistic [Virtual Prototype](#) early on in the design process helps manufacturing companies avoid costly late changes and reduces the number of real prototypes required to achieve a certified product.

The latest version of [Virtual Performance Solution](#) introduces a brand new modular input methodology. This system enables manufacturers to align the structure of Computer-Aided Engineering (CAE) models with their Computer-Aided Design (CAD) or [Product Data Management](#) (PDM) tools. Following either of these widely used "product trees", manufacturers can easily share simulation results and iterate with suppliers responsible for product components; saving an unprecedented amount of time. With this new modular assembly, ESI customers can also use an unlimited number of finite elements for each part, adding model details as required.

Enhancements in the domain of [Noise, Vibration, and Harshness](#) (NVH) include new automated simulation processes, which users can easily customize.

To support the above list of enhancements, Virtual Performance Solution's Graphical User Interface ([Visual-Environment](#) and associated processes) now fully supports modular assembly and the common ESI Result File format across all domains. Based on user feedback, model converters now cover most industrial standard third-party programs. The graphical performance



has been improved for handling larger models, which underlines usability in industrial development projects.

More than ever, this new version of Virtual Performance Solution truly empowers companies to embrace collaborative engineering processes by delivering capabilities to adapt components easily with regards to diverse loading conditions, and by enabling the fast and robust creation of variants.

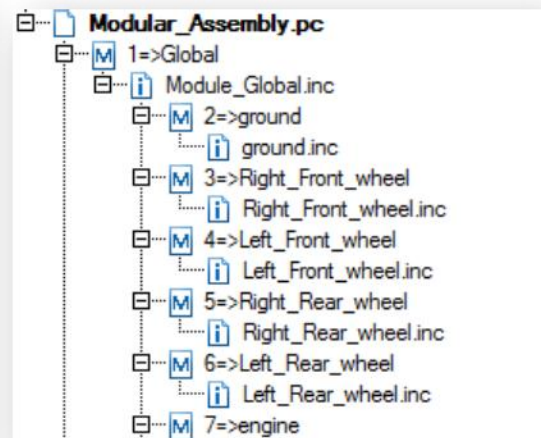


Image: Virtual Performance Solution’s new modular input system enables the creation of “product trees”, which eases communication with different part suppliers.

For more information about Virtual Performance Solution, please visit www.esi-group.com/VPS

For more ESI news, visit: www.esi-group.com/press

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About ESI Group

[ESI](#) is a world-leading provider of Virtual Product Engineering software and services with a strong foundation in the physics of the materials of which products are built.

Founded over 40 years ago, [ESI](#) has developed a unique proficiency in helping industrial manufacturers replace physical prototypes by virtually replicating the fabrication, assembly and testing of products in different environments. [Virtual Prototyping](#) enables [ESI](#)'s clients to evaluate the performance of their product, and the consequences of its manufacturing history, under normal or accidental conditions. By benefiting from this information early in the process, enterprises know whether a product can be built, and whether it will meet its performance and certification objectives, before any physical prototype is built. To enable customer innovation, [ESI](#)'s solutions integrate the latest technologies in high performance computing and immersive Virtual Reality, allowing companies to bring products to life before they even exist.

Today, [ESI](#)'s customer base spans nearly every industry sector. The company employs about 1000 high-level specialists worldwide to address the needs of customers in more than 40 countries. For further information, visit www.esi-group.com.

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