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ESI is the pioneer and world-leading solution provider in virtual prototyping.

Market Data

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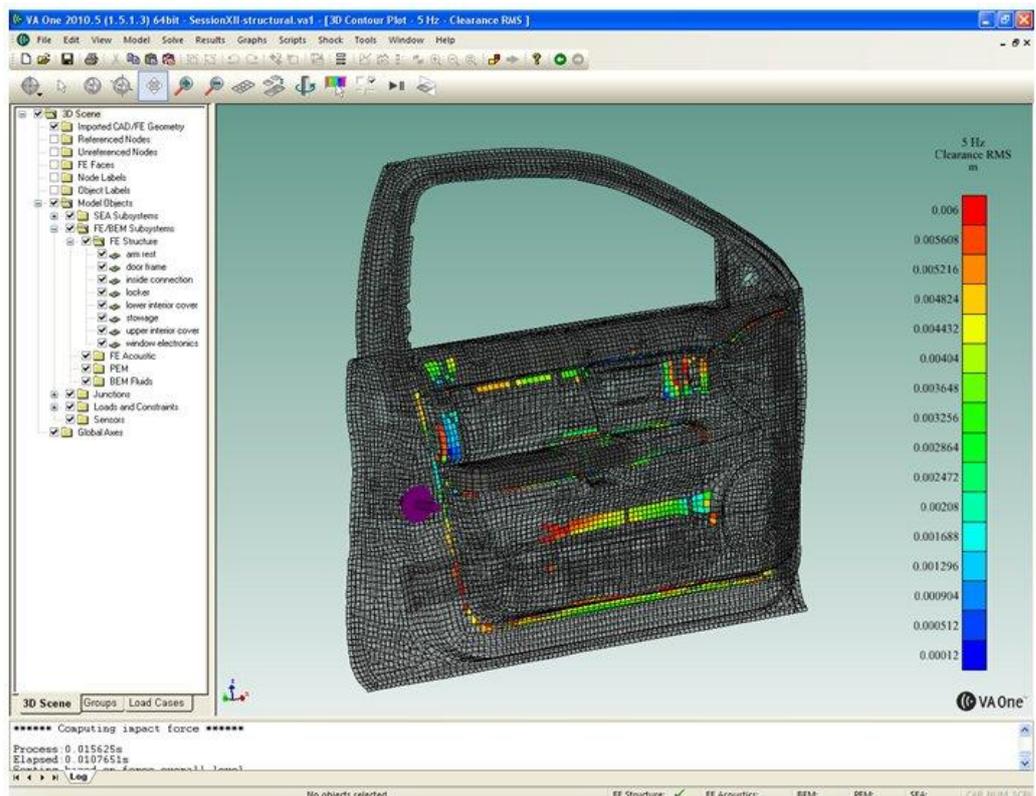
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ESI Group announces new release of VA One

Latest release of noise and vibration simulation software includes new functionality for BSR and Aero-Vibro-Acoustics

Paris, France – 11 July, 2011 – [ESI Group](http://www.esi-group.com) pioneer and world-leading solution provider in [virtual prototyping](http://www.esi-group.com), announces the release of [VA One 2010.5](http://www.esi-group.com). VA One is a complete solution for simulating noise and vibration across the full frequency range and seamlessly combines Finite Elements, Boundary Elements, and Statistical Energy Analysis (SEA) in a single model. This new release includes functionality for modeling BSR (Buzz, Squeak and Rattle) and Aero-Vibro-Acoustics.



VA One model of BSR propensity for a vehicle door

Buzz, Squeak and Rattle (BSR)

BSR is an acoustically perceived quality attribute that consistently ranks as one of the top “things gone wrong” for many new products. The [VA One 2010.5](http://www.esi-group.com) release includes unique functionality for efficiently predicting the loudness of BSR events that occur when a product is exposed to low frequency random noise and vibration. The new functionality is available to



all existing VA One users and can be used to improve product quality and reduce the risk of warranty costs associated with product recalls.

Aero-Vibro-Acoustics

Accurate characterization of interior noise due to exterior flow over a structure can be a challenging task. The [VA One 2010.5](#) release simplifies this task with the introduction of new functionality for modeling complex fluctuating surface pressure loads using data from [CFD](#) calculations or wind tunnel/flight tests. This new functionality is ideally suited for characterizing complex sources at low, mid and high frequencies. The [VA One 2010.5](#) release also includes Aero-Acoustics functionality for modeling the radiation and scattering of exterior flow noise using Boundary Elements and Fast Multipole Boundary Elements.

Productivity enhancements

The [VA One 2010.5](#) release contains around [70 additional performance and productivity enhancements across all modules](#).

"At Western Digital we are committed to designing quiet products for the management of digital information," said **Zakir Quabili**, Principal Engineer at Western Digital. *"VA One is an important tool in our noise and vibration design process."*

"We are pleased to announce the release of VA One 2010.5," said Dr. **Phil Shorter**, Director of Vibro-Acoustic Product Operations at ESI Group. *"The new methods for modeling BSR and Aero-Vibro-Acoustics in VA One 2010.5 are the result of a long term research program and ensure that our users have access to state of the art methods for vibro-acoustic analysis and design."*

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

About ESI Group

[ESI](#) is a pioneer and world-leading provider in virtual prototyping that takes into account the physics of materials. [ESI](#) has developed an extensive suite of coherent, industry-oriented applications to realistically simulate a product's behavior during testing, to fine-tune manufacturing processes in accordance with desired product performance, and to evaluate the environment's impact on performance. [ESI's](#) solutions fit into a single collaborative and open environment for End-to-End Virtual Prototyping, thus eliminating the need for physical prototypes during product development. The company employs over 800 high-level specialists worldwide covering more than 30 countries. [ESI Group](#) is listed in compartment C of NYSE Euronext Paris. For further information, visit www.esi-group.com.

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