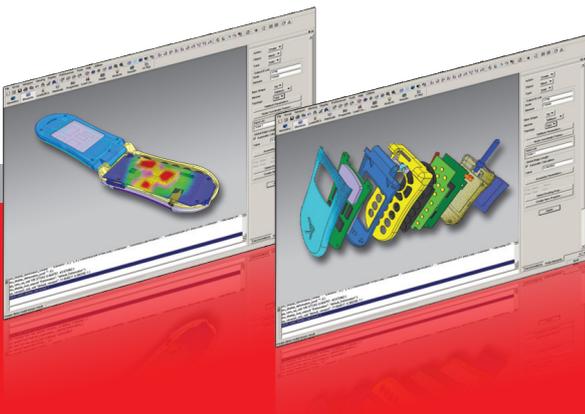


SimOffice

Engineering Simulation for People-Ready Business





SharePoint Products and Technologies provide enterprise-scale capabilities to meet business-critical needs like managing content and business processes, simplifying how people find and share information across boundaries, and enabling better informed decisions.

Delivering the next break-out product is the competitive edge global manufacturers continually seek. Yet many are thwarted by industry challenges such as aggressive cost targets, strict regulatory and certification requirements, and manufacturing and servicing constraints. Delivering a product that satisfies the quality and performance demands of today's customers has never been more challenging—or imperative.

That's why many of the top manufacturers and suppliers around the world rely on MSC.Software enterprise simulation solutions to transform their product development processes.

MSC.Software enterprise simulation solutions use detailed digital product models to simulate and validate product performance, make and track critical design decisions, and enable collaboration across distributed product development teams. MSC.Software solutions empower design and manufacturing companies around the world to accelerate product development, reduce cost, improve product quality, and innovate like never before.

Product Development Challenges

Leapfrog the Competition with Faster, Better Product Design

In today's fast-paced, highly-competitive business environment, it's imperative that manufacturers of all sizes find ways to speed time-to-market of new products, improve product quality, and lower development costs. Yet, many small, medium, and even some large companies cling to traditional methods of validating the design of complex mechanical parts – using expensive physical prototypes late in the design cycle to evaluate performance and identify flaws.

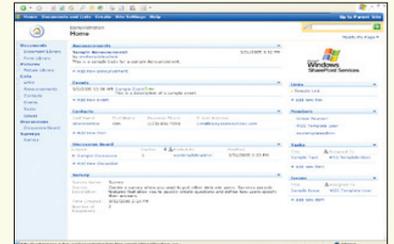
While the alternative – computer simulation – has gained widespread acceptance, manufacturers with limited resources have been hesitant to make a significant investment in the technology. What if you could experience the benefits of simulation without an enterprise-level commitment – starting small at the desktop level and building on your success as you grow your simulation capabilities?

MSC SimOffice – Robust Engineering Analysis

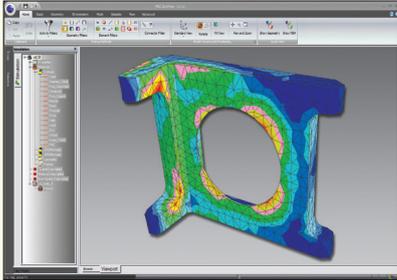
MSC.Software enables companies of any size to reap the many benefits of early, accurate design validation using computer simulation. SimOffice is a powerful, yet easy-to-use simulation application that enables engineers to verify designs and reduce physical prototypes and testing. Specifically developed for engineers who design, analyze, and test complex mechanical parts and systems, SimOffice delivers fast, reliable simulation capabilities in the Microsoft Windows desktop environment.

SimOffice interfaces with the tools engineers already employ such as CAD systems, Microsoft Excel, and other productivity applications. As the world's first Microsoft Vista-ready simulation software, SimOffice also provides built-in connectivity to Microsoft SharePoint for information management and real-time collaboration. Based on the world's most widely-used multidiscipline solver technology – MD Nastran – SimOffice is ideal for organizations needing scalable, easy-to-use, and accurate simulation software.

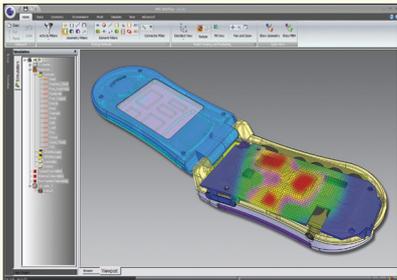
- Accelerates Time-to-Market – The multi-CAD and associative modeling capabilities of SimOffice enable engineers to hone in quickly on the best design direction with faster, more accurate design data earlier in the product development process.
- Cuts Development and Testing Costs – Connectivity with Microsoft productivity tools allows engineers to efficiently gain valuable insight into product performance characteristics, eliminate expensive physical prototypes, and capture and re-use knowledge with automated simulation procedures.
- Uses Real-World Results to Improve Quality – SimOffice leverages the proven reliability of MD Nastran to deliver accurate, real-world results – reducing design flaws, warranty costs, and field failures.
- Enables Collaboration Throughout the Supply Chain – With real-time collaboration capabilities and built-in compatibility with SimManager and SimEnterprise, product performance information can be easily shared with all simulation stakeholders to enable extended enterprise collaboration.



Using the combined collaboration features of Windows SharePoint Services and Office SharePoint Server 2007, plus the design and customization capabilities of Office SharePoint Designer 2007, organizations can enable their users to create, manage, and easily build their own SharePoint sites, and enable these sites to be discovered throughout the organization.



Linear Analysis



Thermal Analysis

Desktop Simulation Solution

Powerful, Yet Easy-to-Use Design Validation

SimOffice provides comprehensive analysis capabilities to evaluate stress, dynamics, and thermal response for a variety of products, from simple to complex. Built on Microsoft Windows and Microsoft Vista-enabled, SimOffice features an easy-to-use modeling environment with an integrated, multidiscipline solver supporting the needs of design engineers, casual users, and expert analysts. SimOffice is also an enterprise scalable solution, leveraging the industry standard MD Nastran finite element solver, Microsoft collaboration capabilities, and integrated connectivity to MSC SimEnterprise solutions for simulation data management and knowledge reuse.

SimOffice includes the following core capabilities:

- Modern Microsoft Office 2007 User Experience
- State-of-the-art, Windows-native modeling environment
- Embedded MD Nastran solver technology
- Interoperability with MD Patran, CAD systems, and finite element analysis products
- Seamless integration with Microsoft productivity and collaboration solutions
- High performance compute capability for larger analyses

Intuitive Modeling Environment for the Design Engineer

SimOffice enables everyone from the casual user to the expert analyst to validate product designs – speeding up the design cycle, reducing the need for expensive prototypes, and improving product quality. A Windows-native, intuitive user interface makes it simple to mesh CAD-native geometry, apply loads and boundary conditions, run analyses, and evaluate the results of product simulations under real-world operating conditions. Built-in connectivity to productivity tools such as MS Excel, enables effortless linking of spreadsheet-based information tables, equations, plots, and graphs.

Harnessing the Power of MD Nastran

SimOffice is powered by MD Nastran – the most widely-used finite element solver in the world – to deliver robust and reliable analysis capabilities for stress, vibration, and other performance aspects of proposed designs.

Using SimOffice, engineers can quickly and easily conduct analyses including:

- Linear and non-linear static analysis including contact
- Linear buckling
- Normal modes
- Stead-state heat transfer
- Dynamic response

While most simulations can be performed on the engineer's desktop computer, SimOffice's built-in compatibility with MSC SimEnterprise solutions also allows large, compute-intensive simulations to be run using MD Nastran on high performance servers.

Design for Ease of Use and Productivity

SimOffice is designed for ease-of-use and maximum productivity, with features that save time and simplify the steps involved in creating models and running analyses. Standard, expandable property libraries, geometry-based loads and boundary conditions, and graphical tools for picking and creating sets of model entities make simulation in SimOffice fast and easy.

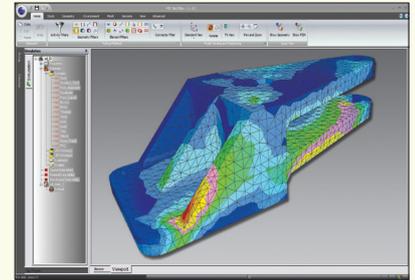
Taking productivity to a higher level, built-in connectivity with Microsoft Windows applications enables Excel-driven analysis, Visual Basic scripting for automated simulation processes, and MS Office result reports to empower design analysis for true business impact.

Interoperability Enables Better Collaboration

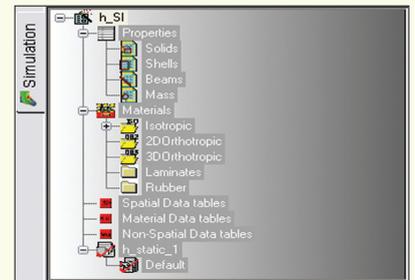
With SimOffice, engineers can directly import and export 3D solid models from a variety of popular CAD systems, including: CATIA, Unigraphics, SolidWorks, and any software using Parasolids or ACIS geometry. SimOffice also supports file exchange with other finite element analysis products to enable collaboration and knowledge sharing across the organization and the supply chain. SimOffice is fully compatible with Patran – the leading pre- and post-processors for CAE simulation – and supports existing automation scripts developed in Patran Command Language (PCL) to leverage the knowledge of expert analysts.

Scalability Ensures Investment Protection

SimOffice is designed to help you grow your simulation capabilities as your company's needs expand. Upwardly compatible with the enterprise MD Nastran solution, SimOffice provides a growth path towards more intensive, complex multidiscipline simulations. Large SimOffice models can be sent to high performance compute servers running MD Nastran and re-used with minimal effort for complete multi-discipline analysis.



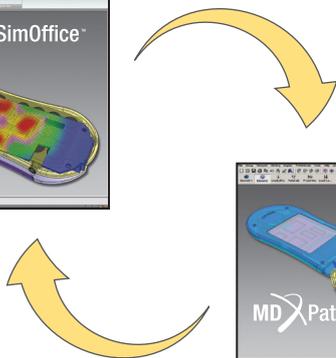
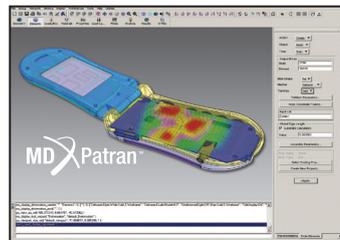
Modal Analysis



Model Tree

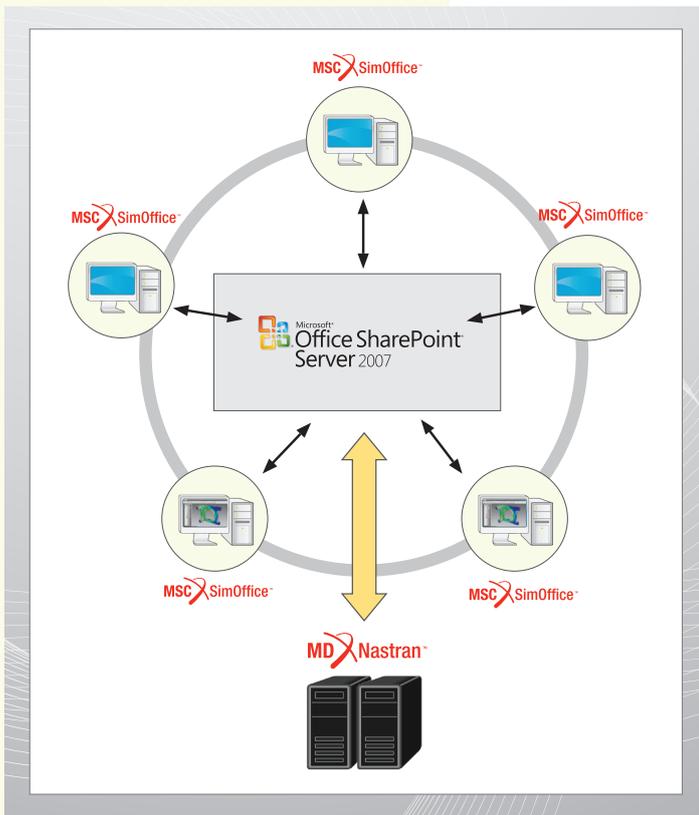


Model Sharing



Partnering for Your Success

Unique Integration with Microsoft Delivers Superior Productivity and Scalability



Through its technology partnership with Microsoft, MSC Software offers tight integration with the Microsoft Windows platform – enhancing usability, productivity, collaboration, and scalability of SimOffice. Windows-native and Vista-enabled, SimOffice works in an integrated manner with productivity applications such as MS Excel and Word, and leverages the sharing and collaboration capabilities of Microsoft SharePoint.

An Integrated Collaboration Environment

SharePoint provides enterprise-scale capabilities for managing content and business processes, simplifying how people find and share information across boundaries, and enabling more informed decisions. SimOffice users can create, manage, and build their own SharePoint sites, and enable these sites to be discovered throughout the organization.

Leveraging Microsoft Collaboration Tools

SimOffice enables engineers and other users to take full advantage of the collaboration and productivity-enhancing features of Microsoft technologies. For instance, product performance information and simulation models can be easily shared via the check-in/check-out document management and real-time collaboration capabilities of Microsoft SharePoint.

SimOffice

Empowering Manufacturers of All Sizes with New Simulation Capabilities

Breaking through the price/performance barrier, SimOffice delivers cost-effective, robust simulation capabilities to manufacturers of any size – drastically reducing product development costs while improving quality and empowering innovation. SimOffice's interoperability with Microsoft applications such as SharePoint lays the foundation for design collaboration throughout the supply chain – giving those suppliers with SimOffice simulation capability a considerable competitive advantage and the agility needed to be more responsive to customers.

About MSC.Software

As the global leader in enterprise simulation solutions, MSC.Software enables thousands of companies in hundreds of industries to accelerate innovation, raise product quality, increase revenue, and reduce costs of manufactured products.

Leveraging its 40-year legacy in simulation expertise, MSC.Software offers a broad array of simulation solutions that use detailed digital product models to verify every aspect of product performance, make and track critical design decisions, and communicate and coordinate product development.



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