

SGI VirtualInsight™

Manage and Gain Insight into Virtual Data Volumes

Benefits

- Streamlines data management in heterogeneous computational environments, reducing costs and accelerating development cycles
- Speeds and automates routine data management tasks to boost engineering productivity
- Intelligently consolidates data for better access plus faster completion of simulations and analyses
- Standardizes data structures and reporting formats for improved project communications
- Integrates infrastructure and applications, enabling simpler, more insightful, whole-design analysis
- Reduces data and method complexity, promoting work process optimization
- Ensures scalability—through scalable platforms and data frameworks—to track data growth

Give Your Experts Time to Think

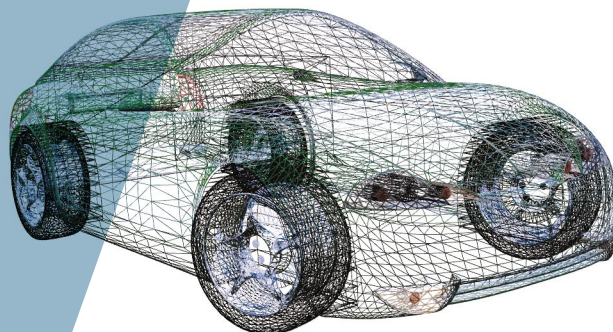
Development teams are continually being asked to accomplish more in shorter time periods. Engineering cycles are also increasingly usurped in nonengineering tasks, particularly those related to data management. An explosion of project data has brought with it a complex management burden and many questions—what is the data, where did it come from, where is it stored, with which project or engineer is it associated, and what calculations are associated with it? The SGI VirtualInsight solution provided by SGI Professional Services helps untangle the data problem with a process flow and data management system designed specifically to maximize engineering resources and increase process efficiency in computational environments. Project experts no longer need to manually sort through, track, and make logical sense of large simulation data volumes.

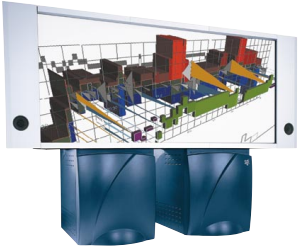
The Web-based SGI VirtualInsight solution builds a data management system around existing R&D and production data management processes to help companies realize the greatest benefits from simulations and other CAE, or large data-generating, processes. SGI VirtualInsight makes it possible to retain, study, and utilize the tagging, tracking, and evolving effects of every piece of data within the system. The system manages all of the data created during engineering processes, automatically tracks data dependencies, and structures the data for data mining.

SGI VirtualInsight Features

SGI Professional Services customizes the functionality of the SGI VirtualInsight solution to meet your unique technical and business requirements.

Data management: SGI VirtualInsight establishes a process-oriented framework that structures data based on creation attributes, not on the content itself, to enable trackability with dependency relationships. These capabilities provide efficient storage and tracking of mixed types of engineering data, including CAE, bioinformatic, computational chemistry, and simulation data sets. The system maintains detailed audit trails and tracks the propagation of faulty data, improving the usefulness of computational results and attributing confidence levels to analysis.





Web-based communications: Serving as a Web-based communications platform, SGI VirtualInsight integrates both engineering data and infrastructures to facilitate project team cooperation. The solution simplifies sharing of cross-discipline or interdepartmental data, helping improve end-product quality as well as accelerating process timelines. The communications platform additionally serves as a framework for linking intranet- and Internet-based ASPs.

Process-oriented data warehousing: The unique process-oriented approach of SGI VirtualInsight organizes the data warehouse to logically match virtual processes. This structure ensures that the solution remains flexible and continuously adaptable to new engineering methods and frameworks.

Knowledge management/data mining: SGI VirtualInsight automatically prepares data for data mining. At import, data is immediately cleaned and checked for consistency. Audit trails include causality information.

Measurable Milestones

The SGI Professional Services team implements your SGI VirtualInsight solution in distinct phases with measurable milestones associated with each phase. During the pilot phase, SGI professionals extensively study the requirements of your unique business and technical environment. Based on these analyses, we apply our systems expertise and process experience to develop a recommended framework. Upon acceptance of the framework, the project progresses to the next phase, during which techniques, applications, and management tools are tested. The implementation of a production environment deploys the complete solution within your actual process environment.

Each project phase incorporates measurable milestones and schedule commitments to ensure success and client satisfaction. The completion of each phase includes a follow-up evaluation as well as recommendations for next-phase modifications or future enhancements.

Bankable Benefits

SGI VirtualInsight deployments help project engineers meet performance, safety, and production goals. Testing costs can be drastically reduced and companies can achieve increased engineering productivity, reductions in product development time through the elimination of many prototype cycles, and shortened scenario analysis times. Savings can exceed millions of dollars in recovered engineering time, reduced materials testing, and overall process efficiency. In addition to tangible dollar savings, SGI VirtualInsight clients consistently cite other benefits, including:

- Expanded insight into the meaning of analyses
- Improved quality of business practices
- Enhanced project team communications
- More effectual project management
- Increased consistency in data processing and documentation
- Reduced engineering workload
- Higher product quality

Partners for Problem Solving and Productivity

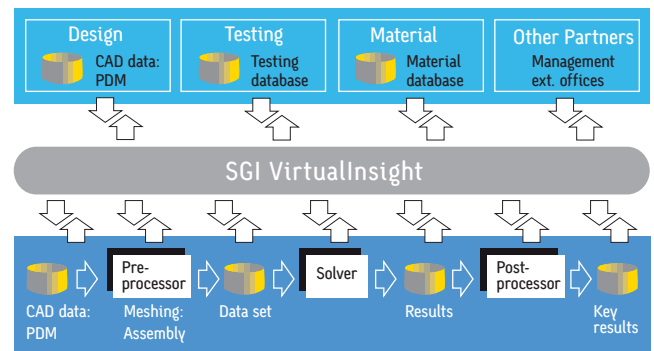
SGI Professional Services works alongside your engineers, partnering to solve data management problems and to enhance team productivity. We bring experience in developing large-data solutions, visualization and data workflow expertise, a portfolio of highly scalable platforms and data management tools, and a corporate commitment to engineering excellence. SGI professionals will help you find innovative methods and maintain an environment conducive to creative engineering design and timely production.

SGI Global Services offers a comprehensive range of service solutions in the following categories:

- **Professional Services**
Custom Engineering
- **Productivity Services**
Managed Services
Remanufactured Products
- **Support Services**
Mission-Critical
- **Education Services**

For additional information, please visit www.sgi.com.

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