

STATISTICA™

High Performance Analytic Software Solutions for Pharmaceutical Research and Manufacturing Organizations

DRUG DISCOVERY & DEVELOPMENT

STATISTICA is a collaborative analytics platform™ for scientists to share data, results and reports, with central configuration of analysis templates and integration with data repositories. STATISTICA is a platform suitable for both researchers and statisticians.

- ✓ Exploratory analyses and data visualization techniques
- ✓ Curve-fitting
- ✓ General and Generalized Linear Models
- ✓ Design of Experiments (DOE)

“ STATISTICA has revolutionized the way in which our scientists analyse their data. (It) ... allows them to create an analysis without any need to learn a statistical language, and this analysis forms both an audit trail and a template for future work. ”

**Senior Statistician, Research & Development,
One of the 5 Largest Pharmaceutical R&D
Companies in the World**

QUALITY CONTROL

STATISTICA augments your laboratory information management system with analytical procedures to get the most from your sample and test data. Automate the creation of annual product reviews, stability tests, and many other time-consuming reports using STATISTICA's report templating, publishing and batch scheduling capabilities.

- ✓ Part 11 features such as audit trails, user/group-based security and access control
- ✓ Automate common statistical routines using STATISTICA analysis templates
- ✓ Quality Control Charts, Process Capability, Multiple Regression, General Linear Models, Distribution Fitting

“ STATISTICA's Report generation has automated our process for generating Annual Product Review Reports for GMP compliance, saving us hundreds of hours per year. Just considering the Report generation alone, the ROI for the software will be achieved in one year of use. ”

**Quality Control Manager,
Global Pharmaceutical Company**

MANUFACTURING / PROCESS ANALYTICAL TECHNOLOGY

STATISTICA connects directly to process information systems, ERP systems and LIMS systems, and provides real-time monitoring of process variables and product characteristics. It is a validated analytics platform with audit trails, user and group based security and access control permissions, and validated numerical procedures.

- ✓ Multivariate Statistical Process Control with Monitoring and Alerting Server
- ✓ Predictive modeling and model deployment for real-time monitoring using neural networks models, Principal Components Analysis (PCA), Partial Least Squares (PLS), MARSplines, Classification and Regression Trees (CHAID, C&RT), and other methods

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All STATISTICA products are complemented with StatSoft's statistical consulting, implementation & configuration, and computer systems validation services. Validation packages, including Part 11 compliance, are available.

STATISTICA™

Collaborative Analytics

Analysis Templates in *STATISTICA* automate the application of analytic and graphical techniques to exploration, modeling and process control. Templates guide users from data selection to the presentation of the results.

Interactive Data Visualization

Hundreds of 2D, 3D and nD Graphs dynamically linked with data, built-in Analytics, Interactive Brushing, Slicing/Dicing, Subsets, Categorization and much more...
STATISTICA has been called by one reviewer, "The King of Data Visualization software."

Comprehensive Analytics

Exploration/Data Reduction: Principal Components, Factor Analysis, Independent Components Analysis, Partial Least Squares, Feature Selection, and much more...

Predictive Modeling and Classification: General Linear Models, Generalized Linear Models, Generalized Additive Models, Nonlinear Estimation, Curve Fitting, Classification and Regression Trees, CHAID, Survival Analysis, and much more...

Advanced Machine Learning Algorithms: Advanced Neural Networks, Support Vector Machines, Naive Bayesian Classifiers, *k*-Nearest Neighbor methods (Memory-Based Learners), Stochastic Gradient Boosting Trees, Multivariate Adaptive Regression Splines (MARSplines), and much more...

Clustering: *k*-Means, EM, Hierarchical (Tree) Clustering, Self Organizing Networks, and much more...

Document Management

High performance, flexible system for secure management of documents. Most efficient way to leverage regulatory requirements into productivity enhancements. Complies with all 21 CFR Part 11 requirements, including access control, versioning, history, electronic signatures and audit trails.

21 CFR Part 11

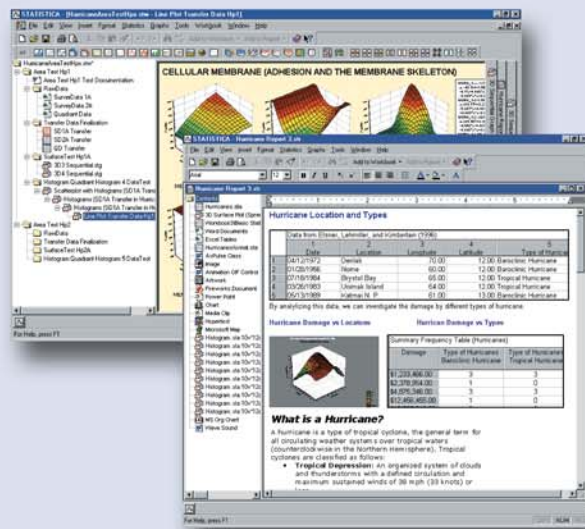
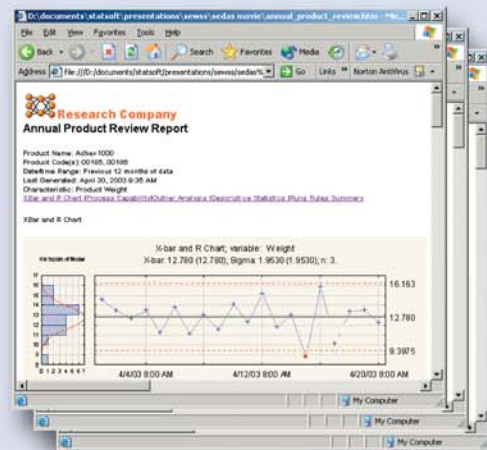
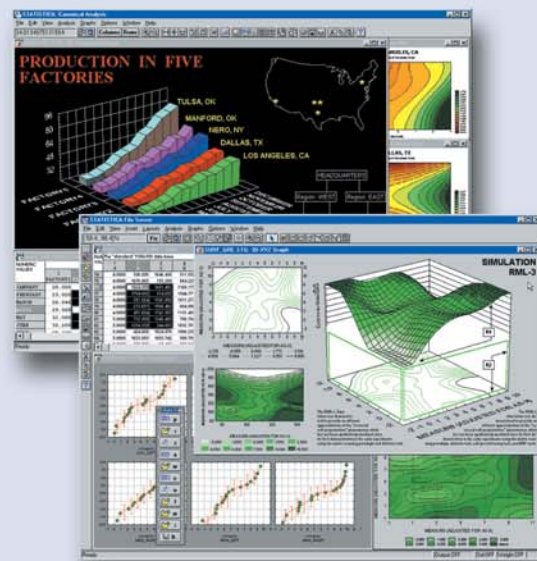
STATISTICA is a validated application with access control and security, audit trails, and electronic signatures.

Report Publishing

Users publish Reports to a secure, Web-based repository, the *STATISTICA* Knowledge Portal that also offers options to interactively run predefined analyses. *STATISTICA* includes a graphical Report Template Editor. Report Scheduler automates the ongoing production of Reports. Report generation links the Report template with the latest results.

Enterprise, Web-Enabled Architecture

STATISTICA is a highly scalable, server-based data analysis system built on a cutting-edge, distributed processing architecture. Central administration and storage of Analysis Templates, Reports, and other *STATISTICA* system configurations. Offload time-consuming tasks to the server. Automated, server-based monitoring with event model and alerting server. Single-user, desktop editions of *STATISTICA* are also available.



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