IBM® SPSS® Statistics software delivers a powerful set of statistical features that enable your organization to make the most of the valuable information your data provides. By digging deeper into your data, you can discover information to improve decision making—ultimately expanding markets, improving research outcomes, ensuring regulatory compliance, managing risk and maximizing ROI to name a few.

IBM SPSS Statistics features robust and sophisticated functionality and procedures that address the entire analytics lifecycle:

– Addresses all facets of the analytical process from data preparation and management to analysis and reporting
– Improves forecasts and plans by imputing missing values with expected values using regression and expectation-maximization
– Provides automated methods to identify anomalies and statistical transformations to address outliers
– Delivers tables and visualizations to communicate results effectively
– Classifies cases into groups and predicts values of a target variable based on values of predictor variables
– Enables accurate modeling of linear and non-linear relationships

There are two ways to purchase IBM SPSS® Statistics: through a subscription plan or a traditional on-premises license edition. In this document we will be covering details of the on-premises version. Want to know about the SPSS Statistics Subscription plans? Read this datasheet.

The on-premises version includes one year of technical support and you can choose either a perpetual or term license for Windows or Mac. The on-premise license option includes these editions – Base, Standard, Professional and Premium. These editions group essential features, functionality and usage requirements to offer a convenient way to acquire the capabilities you need. For details of the features included in each of the editions, visit these links

– Base
– Standard
– Professional
– Premium

Why use IBM SPSS Statistics?

IBM SPSS Statistics is the world’s leading statistical software. It enables you to quickly dig deeper into your data, making it a much more effective tool than spreadsheets, databases or standard multi-dimensional tools for analysts. SPSS Statistics excels at making sense of complex patterns and associations—enabling users to draw conclusions and make predictions. And it’s fast—handling tasks like data manipulation and statistical procedures in a third of the time of many non-statistical programs.

Propel research and analysis with a comprehensive statistical software solution
### Commercial Editions (Perpetual/Term Licenses)

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<td>Exact Tests</td>
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<td>SPSS Amos*** (Windows, Desktop only)</td>
<td>Add-on</td>
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<td>Add-on</td>
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</tbody>
</table>

Want to know about the SPSS Statistics Subscription plans? [Read this datasheet](#).
IBM® SPSS® Statistics Traditional License packages and features

**Base package**
The Base package includes the following features:

*Data access and management*
- Compare two data files for compatibility
- Data prep features: Define Variable Properties tool; Copy Data Properties tool, Visual Bander, Identify Duplicate Cases; Date/Time wizard
- Data Restructure wizard
  - Single record to multiple records
  - Multiple records to single record
- Direct Excel data access
- Easier importing from Excel and CSV
- Export data to SAS and current versions of Excel
- Export/insert to Database wizard
- Import data from IBM Cognos® Business Intelligence
- Import/export to/from Dimensions
- Import Stata files (until V14)
- Long variable names
- Longer value labels
- Multiple datasets can be run in one SPSS session
- ODBC Capture—DataDirect drivers
- OLE DB data access
- Password protection
- SAS 7/8/9 data files including compressed files)
- Text wizard
- Unicode support
- Very long text strings

*Data preparation*
- Automated data preparation—enhanced model viewer for automated data preparation
- Validate data—streamline the process of validating data before analyzing it
- Anomaly detection—identify unusual cases in a multivariate setting
- Optimal binning

*Graphs*
- Auto and cross correlation graphs
- Basic graphs
- Mapping (geospatial analysis)
- Chart gallery
- Chart options
- ChartBuilder UI for commonly used charts
- Charts for multiple response variables
- Graphics Production Language for custom charts
- Interactive graphs—scriptable
- Overlay and dual Y charts
- Panelled charts
- ROC analysis
- Time series charts

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**Standard**

**Professional**

**Premium**
**Output**
- Case summaries
- Style output
- Conditional formatting
- Codebook
- Export charts as Microsoft Graphic Object
- Export model as XML to SmartScore
- Export to PDF
- Export to Word/Excel/PowerPoint
- HTML output

**Help features**
- Application examples
- Index
- Statistics coach
- Tutorial
- Extensions

**Data editor enhancements**
- Custom attributes for user-defined metadata
- Spell checker
- Splitter controls
- Variable sets for wide data
- Variable icons
- Optimal binning
- Improved performance for large pivot tables
- OLAP cubes/pivot tables
- Output management system
- Output scripting
- Reports summaries in rows and columns
- Search and replace
- Smart devices (tablets and phones)
- Table to graph conversion
- Web reports

**Extended programmability**
- Custom UI builder enhancements (work seamlessly with Python and R and can be used in IBM SPSS Modeler)
- New Extensions hub
- Custom dialog builder for Extensions
- Flow control or syntax jobs
- Partial least squares regression
- Python, .NET and Java for front-end scripting
- SPSS equivalent of the SAS DATA STEP
- Support for R algorithms and graphics
- User-defined procedures
**Statistics**
- ANOVA (in syntax only)
- Automatic linear models
- Cluster
- Correlate—bivariate, partial, distances
- Crosstabs
- Define variable sets
- Descriptive ratio statistics (PVA)
- Descriptives
- Discriminant analysis
- Enhanced model viewer on two-step cluster and new nonparametrics
- Explore
- Factor analysis
- Frequencies
- Geo-spatial analytics (STP and GSAR) (NEW!)
- Improved performance for frequencies, crosstabs, descriptives
- Power Analysis
- (Statistics Base Server)
- Matrix operations
- Means
- Monte Carlo simulation
- Nearest neighbor analysis
- New nonparametric tests
- One way ANOVA
- Ordinal regression (PLUM)
- Ordinary least squares regression
- Power Analysis
- PP plots
- QQ plots
- Ratio
- Reliability and ALSCAL multidimensional scaling
- ROC curve
- Compare ROC curves
- Rule checking on secondary SPC charts
- Summarize data
- T tests: paired samples, independent samples, one-samples
- Two-step cluster: categorical and continuous data/large data sets
- Weighted Cohen’s kappa

**Multithreaded algorithms**
- SORT

**Bootstrapping**
- Sampling and pooling
- Descriptive procedures that can be bootstrapped
  - Correlations/nonparametric correlations
  - Crosstabs
  - Descriptives
  - Examine
  - Frequencies
  - Means
  - Partial correlations
  - T tests
### Standard package
The Standard package includes the Base package plus the following features:

#### Regression
- Binary logistic regression
- Logit response models
- Multinomial logistic regression
- Nonlinear regression
- Probit response analysis
- Two stage least squares
- Weighted least squares
- Quantile regression

#### Advanced statistics
- Cox regression
- General linear modeling (GLM)
  - General factorial
  - Multivariate (MANOVA)
  - Repeated measures
  - Variance components
- Generalized linear models and generalized estimating equations
  - Gamma regression
  - Poisson regression
  - Negative binomial
- GENLOG for loglinear and logit
- Generalized linear mixed models (GLMM) (ordinal targets included)
- Bayesian statistics
- Hierarchical loglinear models
- Kaplan Meier
- Linear mixed-level models (aka hierarchical linear models)
- Survival
- Variance component estimation

#### Custom tables
- 35 descriptive statistics
- Drag and drop interface
- Inferential statistics
- Nested tables
- Place totals in any row, column, or layer
- Post computed categories
- Effective base for weighted sample results
- Put multiple variables into the same table
- Significance tests on multiple response variables
- Significance test in custom tables main table
- Significance values for column means and column proportion tests
- Specialized multiple response set tables
- False discovery correction method for multiple comparisons
- Syntax converter
### Professional package

The Professional package includes Base and Standard package features, plus the following:

<table>
<thead>
<tr>
<th><strong>Forecasting</strong></th>
<th><strong>Missing values</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto regressive integrated moving average</td>
<td>Data patterns table</td>
</tr>
<tr>
<td>Autoregression</td>
<td>Imputation with means estimation or regression</td>
</tr>
<tr>
<td>Expert modeler exponential smoothing methods</td>
<td>Listwise and pairwise statistics</td>
</tr>
<tr>
<td>Forecast multiple series (outcomes) at once</td>
<td>Missing patterns table</td>
</tr>
<tr>
<td>Temporal causal modeling</td>
<td>Multiple imputation of missing data</td>
</tr>
<tr>
<td>Seasonal decomposition</td>
<td>Pooling</td>
</tr>
<tr>
<td>Spectral analysis</td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th><strong>Categories</strong></th>
<th><strong>Decision trees</strong></th>
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</thead>
<tbody>
<tr>
<td>Correspondence analysis (ANACOR)</td>
<td>C&amp;RT</td>
</tr>
<tr>
<td>Principal components analysis for categorical data (CATPCA; replaces PRINCALS)</td>
<td>CHAID</td>
</tr>
<tr>
<td>Ridge regression, lasso, elastic net (CATREG)</td>
<td>Exhaustive CHAID</td>
</tr>
<tr>
<td>CORRESPONDENCE</td>
<td>QUEST</td>
</tr>
<tr>
<td>Nonlinear canonical correlation (OVERALS)</td>
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</tr>
<tr>
<td>Multidimensional scaling for individual differences scaling with constraints (PROXSCAL)</td>
<td></td>
</tr>
<tr>
<td>Preference scaling (PREFSCAL; multidimensional unfolding)</td>
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<td>Multiple correspondence analysis</td>
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</table>
Premium package
The Premium package includes Base, Standard and Professional features plus the following:

**Exact tests**
- Cochran’s Q test
- Contingency coefficient
- Cramer’s V
- Fisher’s exact test
- Somers’ D—symmetric and asymmetric
- Friedman test
- Gamma
- Goodman and Kruskal tau
- Jonckheere-Terpstra test
- Kappa
- Kendall’s coefficient of concordance
- Kendall’s tau-b and tau-c
- Kruskal-Wallis test
- Likelihood ratio test
- Linear-by-linear association test
- Mann-Whitney U or Wilcoxon rank-sum W test
- Marginal homogeneity test
- McNemar test
- Median test
- Pearson Chi-square test
- Pearson’s R
- Phi
- Sign test
- Spearman correlation
- Uncertainty coefficient—symmetric or asymmetric
- Wald-Wolfowitz runs test
- Wilcoxon signed-rank test

**Neural networks**
- Multilayer perception
- Radial basis function

**Conjoint**
- Estimate utilities (CONJOINT)
- For conjoint analysis (ORTHOPLAN)
- PLANCARDS

**Direct marketing**
- Cluster analysis
- Contact profiling
- Control package test
- Propensity to purchase
- RFM analysis: recency, frequency, monetary
- Zip code response

**AMOS (Structural Equation Modeling)**
- Bayesian estimation
- Confirmatory factor analysis
- Enter the model into a spreadsheet-like table (no programming)
- Estimation of categorical and censored data
- Latent class analysis
- Non-graphical method of modeling
- Structural equation modeling/path analysis
- Specify path diagram using syntax

**Complex samples (CS)**
- CS Cox regression (also multithreaded)
- CS descriptives
- CS general linear models
- CS logistic regression
- CS ordinal regression
- CS selection
- CS tabulate
- Sampling wizard/Analysis Plan wizard