

Release Notes for JMP 17.1

JMP 17.1 is a general maintenance release that contains enhancements and bug fixes. Reproducible crashes and numeric issues have been corrected. Applying this maintenance release is recommended for all users.

This document contains the following content:

- [“New Features”](#)
- [“General Improvements”](#)
- [“Statistical Improvements”](#)

New Features

Fit Response Screening

- Fit Response Screening now supports categorical Switch columns.

JMP Live

- When publishing reports that include data, the options to use an existing JMP Live data table or create a new data table are presented in a new window. Instead of clicking Data Options, these options appear in the Configure Data window.
- In the publish success window, external links to JMP Live content are more apparent.
- There is a new Admin page for managing spaces. This page appears not only to JMP Live administrators but to anyone who is given permission to manage all JMP Live spaces.
- There are new ways to quickly find control chart alarms that are visible to you.
 - Find alarms across all spaces from the Filter icon on the Home page.
 - Find alarms within a space from the Active Warnings icon.
- You can see any credentials you have created for refresh scripts and any data tables that are using the credentials. In JMP Live, click *your user icon* > **Settings** > Credentials icon.
- When updating data in a JMP Live post, the Undo Recent Updates button has been replaced with an option in the More menu called Restore previous version.

Measurement Systems Analysis

- When saving metadata, there are new options to save the lower and upper tolerance values as Spec Limits column properties. These options appear when you select **Save** > **Save Metadata as Column Properties** from the platform’s red triangle menu.

Multivariate Embedding

- The Uniform Manifold Approximation and Projection (UMAP) method is now the default dimension reduction method in the Multivariate Embedding platform. Previously, the default method was the t-Distributed Stochastic Neighbor Embedding (t-SNE) method.

Response Screening

- You can change the default maximum number of levels that are allowed for categorical variables using the new JSL-only option called Max Comparison Levels. If you have categorical variables with more than 10 levels and try to use the Show Mean Differences option or the Practical Differences and Equivalences option, an error message is shown. Using the new option, you can change the default value of 10 to some other value.

Scripting

- To automate the license renewal process, you can use the Renew License() function to specify the file path where your jmp.per or SID file resides.

Structural Equation Models

- The frequency column role is now supported.
- You can now edit the name of a model in the Model Comparison table.
- The relative noncentrality index (RNI) and the BIC relative to the unrestricted model (BICu) are now reported.
- A new model shortcut enables you to model an error-free latent variable by specifying an estimate of error variance for an observed variable.
- The one-click Bootstrap feature is now supported.

Variability Chart

- When saving metadata, there are new options to save the lower and upper tolerance values as Spec Limits column properties. These options appear when you select **Save > Save Metadata as Column Properties** from the platform's red triangle menu.

General Improvements

Data Tables

- When you select the Hide ODBC Connection Strings option, the Source, Updated from Database, and Modify Query table scripts are removed from Query Builder and Open Table.

Import and Export

- The OSIsoft PI Server Wizard now includes a Timeout option. The default setting is 60 seconds.

Preferences

- The Privacy preferences provide information about the collection of telemetry data and the handling of unexpected errors. What you see depends on whether you are running the trial version of JMP.

Statistical Improvements

Cumulative Damage

- The calculations for the confidence intervals in step-stress models has been improved.

Design of Experiments

- The MSA Design platform now includes buttons to implement typical MSA design structures.
- The Sample Size and Power platform is deprecated, meaning it is an older platform that contains features that can be accessed in a newer platform. This legacy platform might not be available in future releases of JMP. Sample size and power calculators are now available in the Sample Size Explorers platform. Select **DOE > Sample Size Explorers** for sample size calculations.
- The linear constraint dialog is now more stable when updates are made to it.
- The run order is now automatically randomized for FFF space filling designs.

Decision Threshold

- The True Classification by Threshold and True Classification by Portion graphs in the Decision Threshold report are now correct when there are missing values.

Distribution

- The Fit Handle[] syntax in Distribution once again accepts a variable argument.

Explore Outliers

- JMP no longer closes unexpectedly when you use the RPCA save commands across multiple By groups.

Fit Model

- The Mixed Model, Nominal Logistic, and Ordinal Logistic personalities of the Fit Model platform now support a Switch column role, which enables you to specify columns that can be switched, one at a time, into the model.
- Mixed models with many levels in a random effect no longer produce results that are dependent on the reference level of a fixed effect.

Fit Y by X

- The labeling of confidence intervals for superiority, noninferiority, and equivalence tests in the Oneway and Contingency platforms has been improved for clarity.

Functional Data Explorer

- The Wavelets DOE Analysis report now includes diagnostic plots.
- The FDOE Profiler in the Wavelets DOE Analysis report now supports target functions.
- When using the Save Data or Save Summaries options with a validation set, the original values and value labels are now saved for the validation column. This is relevant if your validation column contains a Test set.

Generalized Linear Model

- The calculation for the AICc in models with overdispersion has been updated and does not include the overdispersion parameter.

Generalized Linear Mixed Model

- The Indicator Parameterization Estimates option is no longer available when the No Intercept option is selected in the Fit Model launch window.

Generalized Regression

- The odds ratios, hazard ratios, and incident ratios for ordinal effects in Generalized Regression are now correct.

Measurement System Analysis

- The calculations of the heterogeneity of variance (HOV) limits for the test-retest error report have been updated. This improves the false-alarm rate.
- The AIAG Gauge R&R Results option is now invoked correctly from scripts in non-English JMP.

Mixed Model

- The Indicator Parameterization Estimates option is no longer available when the No Intercept option is selected in the Fit Model launch window.

Process Capability

- The Process Capability results are now correct when the data have a range of zero.
- The formulas for calculating the points in the Goal Plot have been updated.

Process Screening

- The formulas for calculating the points in the Goal Plot have been updated.

Profilers

- If the Compute Shapley values for all rows, excluded and unexcluded option is selected, Shapley values are now correctly computed for all rows when using the Profiler from the Formula Depot.

Standard Least Squares

- The Indicator Parameterization Estimates option is no longer available when the No Intercept option is selected in the Fit Model launch window.