



Many risk management systems are built in fragile, static, and restrictive spreadsheet systems which introduce calculation errors, create inefficiencies, and cost organizations time and money. Moreover, spreadsheet systems rarely have audit trails. They are not easily transparent and can introduce security risks.

ZEMA releases corporations from dependence on an ad-hoc spreadsheet-based analysis by providing end-to-end data management solutions that are flexible, dynamic, and transparent.

Rapid Access to Data of Any Type

ZEMA collects and stores data from any number of data providers and makes it available for any business processes. Data of any granularity, collected from any industry, is checked for timeliness, accuracy, and completeness to ensure that it is reliable and useful. ZEMA:

- Provides a single point of data access
- Pulls data from any electronic format and any source
- Collects data in real time or as scheduled
- Validates data as it is imported into the system

Refined Market Analysis and Forward Curve Construction

Through a powerful interface that allows users to visualize, manipulate, and export data, ZEMA provides greater value to raw market data. ZEMA avails many analytical functions:

- Performs analyses that account for configurable holiday calendars, as well as time and date conversions
- Contains a formula library that supports mathematical, statistical, date-based, conditional, and forward functions
- Creates analytics that can be shared enterprise-wide, or with user/group-defined access permissions
- Performs spread, unit/currency conversion, extrapolation, shifting, aggregation, and trend analysis
- Performs advanced forward curve functionality such as contract analysis, forward plotting, promptness analysis, arbitrage-free blending, shaping, flattening, and curve extensions
- Supports blending, prioritization, and comparison of various source providers against one another
- Replaces Excel-based curve logic with ZEMA-based curve logic for greater flexibility, scalability, security, and readability



ZEMA For Risk Managers

Automated Intra and End-of-Day Processes

ZEMA comes with a workflow engine that automates the construction, mapping, validation, and integration of the corporate forward curve library. Curves that are constructed through ZEMA are delivered directly to the target system, including ETRM, ERP, and BI tools. ZEMA provides a full audit trail of all activities and notifications of successes and failures, ensuring that all business processes are auditable, transparent, and repeatable. ZEMA supports curve management by:

- Automating the generation of thousands of curves
- Setting read/write access permissions, curve logic, curve definitions, and curve editing privileges
- Monitoring curve building and validation status
- Working with internal and external curves
- Distributing curve results to downstream systems (such as ETRM, ERP and BI systems)
- Setting automatic email-based notifications for curve successes and failures

Trader Mark Uploads

ZEMA allows users to enter and upload internal marks in a systematic and controlled manner. Each user is associated with any number of curves, and can create upload spreadsheets quickly. With ZEMA, users can view curve histories, compare curves from day-to-day, enter current day values, copy previous day values, or make other adjustments to the data.

Managing internal curves with ZEMA provides:

- Simplified data entry process
- Greater security through functions that are permission-based and highly secure
- Fully integrated curve automation process
- Integration with MS Excel

Use Preferred Tools with ZEMA

ZEMA provides a number of integration points that allow any third-party tool to access data through the database layer, or through the ZEMA service layer. Users can utilize MS Excel, Tableau, Spotfire, Business Objects, MATLAB, R, SAS, or any other tool of choice in conjunction with ZEMA. ZEMA is designed to integrate fully with downstream ERP, ETRM, RMIS, and financial systems.

Security Compliance

ZEMA's structure ensures full compliance with all administrative, security, and legal requirements that may exist. Through ZEMA's administrative module, administrators can grant access to any ZEMA module, restrict usage of any data set and limit license quantity lengths to ensure compliance with any standard. ZEMA can also track usage of ZEMA data and applications, as well as configure global settings for all ZEMA tools.

What ZEMA Can Do for Risk Managers

ZEMA provides multiple benefits to daily operations in mid-offices of small, medium, and large-scale organizations around the globe.

- Automated collection of data from private and public sources
- Integration of internal corporate data
- Validation of market data
- Historical and forward analysis
- Generation of forward curves
- Full automation of simple or highly complex curves
- Complete audit trails and event notifications
- Seamless integration with RMIS, ETRM, and ERM systems

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