



The volume of data available to energy and commodity market participants continues to grow at an exponential rate. As a direct result, businesses are faced with more and more data management challenges than ever before. Dealing with the enormous volume of data available from different providers, in different formats and at different time granularities is a complex task. For corporations that take on the task of centralizing and standardizing this data, the costs and resource requirements are typically very high.

Data Challenges Faced by Businesses

- Handling disparate sources, granularities, and units
- Sifting through data feeds for the right data
- More time spent gathering data than analyzing it
- Difficulty validating data and spotting quality issues
- Managing entitlements and security of data
- High support costs for all data management activities

How ZEMA Solves Data Challenges

ZEMA is a fully automated enterprise data management software solution that collects data from multiple data providers around the world, making that data highly available and easily accessible to business users and systems alike. With a database containing data from more than 400 unique data providers and over 4000 market data reports, the ZEMA data catalogue is unrivalled.

Get Centralized Data Access

ZEMA creates a single point of access for data, whether internal or external to a company. The ZEMA database contains a sophisticated metadata layer that creates a comprehensive corporate data catalogue, effectively allowing for normalized data presentation. **ZEMA's capabilities support automatic collection and storage of data from any industry.**



ZEMA can schedule data collection at any granularity to meet specific business needs. Data can be captured each second, minute, hour, day, week, month, or year. Data can be collected from any private or public source, including brokers, public exchanges, government agencies, financial firms, weather sites, publishers, and internally generated sources.

ZEMA imports many forms of data regardless of its format, whether it's in Microsoft Excel, XML, PDF, HTML or CSV files. These datasets can be collected from external and internal locations such as FTP, HTTP, email in-boxes, network drives and secured locations whether requiring authentication and/or certificates.

ZEMA's scheduling capability allows enterprises to access data for timely integration with various business processes and downstream systems. Data can be captured on the second, minute, hour, day, week, month, and year.

ZEMA can:

- Capture data in real time
- Collect client specific information from behind certificate sites
- Schedule, and centralize data from any market or internal data source
- Automatically check for completeness, correctness, and timeliness as data is imported to the system
- Secure and report on data usage helping clients get a grasp on their entitlements
- Provide a wide range of extract options



ZEMA as a Data Solution



Get Simplified Data Access

ZEMA makes it easy to extract and use data throughout the corporation. The entire ZEMA Suite is composed of products and services designed to get information to the right place, in the right format at the right time. Users and systems can access data through user friendly interfaces or through a wide range of services and APIs. Examples of how data can be extracted from ZEMA include:

- ZEMA's powerful front end analytical tool that provides the ability to extract, manipulate, visualize and export data
- ZEMA's Excel Add-in feature that allows users to embed data dynamically into their spreadsheets
- Highly visual tool designed to let users embed content of different types into a single window
- ZEMA publishes real-time data and data events to listening systems
- Programmatic extraction layer allowing technical staff leverage the ZEMA business layer, data stored in the database or saved queries
- ZEMA has multiple scheduled or event based jobs that can deliver data to target systems in the format they need
- The ZEMA system is back-ended in Oracle or SQL Server ensuring that companies can integrate data through an open database platform

Manage Entitlements

Through ZEMA's administrative functionality, specific datasets can be assigned to the appropriate users ensuring that they are always in compliance with their data policies.

ZEMA also supports reporting on data usage. Corporations can easily know who is using data, when it was used and through what ZEMA tools. This functionality makes it easy to prove compliance on data usage along with helping customers understand their usage patterns for potential cost savings for unused or underused data subscriptions.

Know the Quality of Data

ZEMA's validation functionality ensures the integrity of data is known. ZEMA performs ongoing validation tests when collecting data. If collected data fails to pass one of these tests, ZEMA alerts users regarding data quality issues. Intuitive visual screens make potential errors easy to find and help users understand which data sources are passing or failing the four comprehensive validation tests. Tests include:

- Completeness:** Is all of the data being collected?
- Correctness:** Are specific values of the data within limits defined by the user?
- Timeliness:** Is data arriving on time and as scheduled?
- Newness:** Is this data a copy of previous day or is it new?

ZEMA eliminates common problems companies face from existing data management processes- including high support costs, delays in data collection, data gaps, input errors, and duplication in effort.

ZEMA's data management capabilities are available irrespective of the selected hosting model (on client site, hosted by ZE or through subscription).

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