

DataScrubber™

DataScrubber™ automates the validation of data for accuracy. A battery of statistical tests specific to the energy industry identify and remediate erroneous data for enhanced modeling precision and certainty of market intelligence.

DataScrubber™ Advanced Analytics Behind Everyday Use

DataScrubber™ provides unmatched analytic strength to automate the cleansing of market data. Ascend's **DataScrubber** tool resolves errant data issues with ease in a timely matter. Through screening incoming data with a variety of sophisticated statistical algorithms, **DataScrubber** identifies suspicious values.

Most model errors result from poor data quality, **DataHarvester** minimizes these costs simultaneously maximizing the accuracy of models and certainty of data quality.

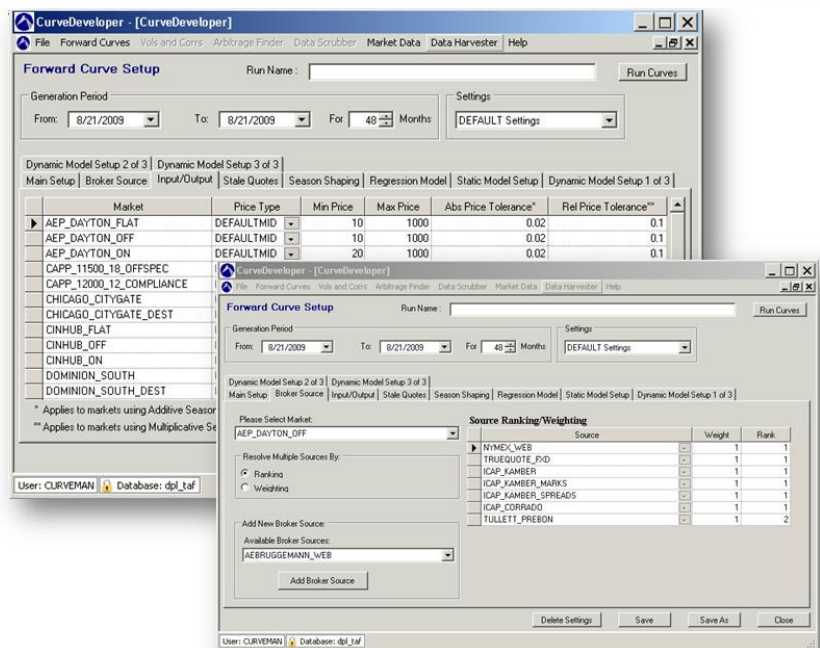
Through a battery of statistical tests **DataScrubber™** allows you to:

- Screen for stale quotes and repeated patterns
- Identify outliers, abrupt jumps, and moving average trends
- Resolve client-specific issues with market and fundamental data
- Suspicious basis differences between neighboring month quotes, neighboring market quotes and broker sources
- Determine anomalies in spreads, inter- and intra-market price returns
- Exclude date errors, stale, and flat quotes

Unique Product Values

- Energy specific logic to insure data quality and accuracy
- Eliminates suspicious data input to simulation models, while keeping records for audit trails and control
- Reduces manual hours through a battery of statistical tests
- Automates and controls the cleansing of market data in seconds

Date	Error Tag	Market Name	Source Name	Strip	Price Type	Scrubber Test	VAL	Comp Value	Mean Abs St Dev	Num St Dev	Percentile	Indication
5/14/2009	OK	AEP_ON	TULLETT_PREBON	CAL10	ASK	FloorTest_POWER	69.75	69.75	1.2405	-	-	OK
5/14/2009	LOW	AEP_ON	NYMEX_WEB	CAL11	BID	SourceBasis	45.66	72.25	1.4919	3.5744	95	LOW
5/15/2009	FLAT	AEP_ON	TULLETT_PREBON	CAL10	SETTLE	NeighborTemporalBasis	70.50	70.50	38116	0.22007	50	FLAT



DataScrubber™ Visual mechanisms to review your data

DataScrubber™ supplies data review logs to easily track incongruous data through error flagging and personalized communication protocols and alerts. Users have the ability to readily define, control, and expand data scrubbing tests. The open code environment provides an additional level of access and control. This tool's advanced analytics provides a robust solution to tighten the quality of market data

Credibility

Ascend software serves as the market data infrastructure solution for America's largest utility and many other energy industry leaders

ASCEND ANALYTICS

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