

SymbaaS - Symbology as a Service

For small to medium investment firms, cost-effective access to market data sources enjoyed by major international banks, prior to on-demand innovation, was usually a one size fits all choice, alleviated somewhat, by carving out distinct markets but not at a contract level. New technology and innovative commercial models are now generally available from market data distributors (MDDs) which offer per security requests, albeit at a premium, being multiples of all-universe average unit prices. For a small to medium trading firm, the ability to scale input costs to match portfolio activity is critical to maximise returns while building up a book of business.

Specialist symbol mapping services for market data are available for the wider and deeper demands of the large international trading firms, but the innovation of data solutions that combine the best of on-demand technology with commercially available contracts, mean that small to medium firms can now use dynamic symbol transformation, specifically tailored to their portfolios, to access the same market data sources as the largest investment banks but at significantly lower costs.

Per security market data costs are minimised by only requesting information on the open positions a firm is actively managing. Data requests may contain both price and reference content that can be applied for portfolio valuation, risk management, margining and enriched client reporting.

Even a small to medium investment firm has a number of system components to their trading operation and it is symbol translation that provides the persistent linking of these components, in the form of data passporting, which enables system inter-operability and solution delivery.

This innovative reference data solution comprises a core three-step process after initial client data transfer:

Data Transfer - Inbound open position data received from client

The start of the process involves the generation and secure delivery of the client's data of open positions in traded futures and options contracts in a standardised format with client populated records in inbound fields:

Field Name	Data Example	Data Management
Security ID	ZGBUSC15500F6	Inbound client populated
Product Type	FXOPT	
Exchange	XCME	
Back Office Vendor Product Code	ZGBUS	
Exchange Clearing Code	BP	
Last Trading Date	20170609	
Option Right	Call	
Strike Price	155	
ID_MDD_SYMBOL	DOLM1700155	Outbound Service provider populated
ID_MDD_UNIQUE	TD XJW5823034R	
ID_LAST_PRICE	1.3058	

Security of Sensitive Information

Information security in the cloud or service environment is expected from any supplier and this solution utilises modern encryption and storage standards to meet this essential requirement. Secure file transfer SFTP with public and private key encryption, SSH and SSL secure connection methods are used and hosting centres are ISO 27001 compliant.

1. Open Positions Matched to Products in Database

Mapping to contracts in the service provider's securities master file is carried out based on pre-determined transformations to verify the contracts in scope. This can include the resolution against specific trading system vendors' unique identifiers at both product and contract level and substituting recognised field names from matched contract text name search strings.

2. Synthetic Ticker Symbols Created and Appended to Contract Records

Synthetic series level tickers are then constructed for each contract record in the MDDs prescribed format. The method of ticker construction is different depending on whether the contract in scope is a future or option and which asset class the contract belongs to. MDDs acceptable formats for tickers vary with some requiring a prompt month to be single, double digit or a combination of the two separated by space. This is usually determined by how long a contract is set to trade until, for example the contract's final last trading date. When receiving data from a client this is not always possible to ascertain. For example, a client may provide series data for a contract from the current month and year to five years in the future, whereas the MDD may have trading data for the next fifteen years for the same contract.

3. Ticker Symbols Used to Request Market Data Per Security

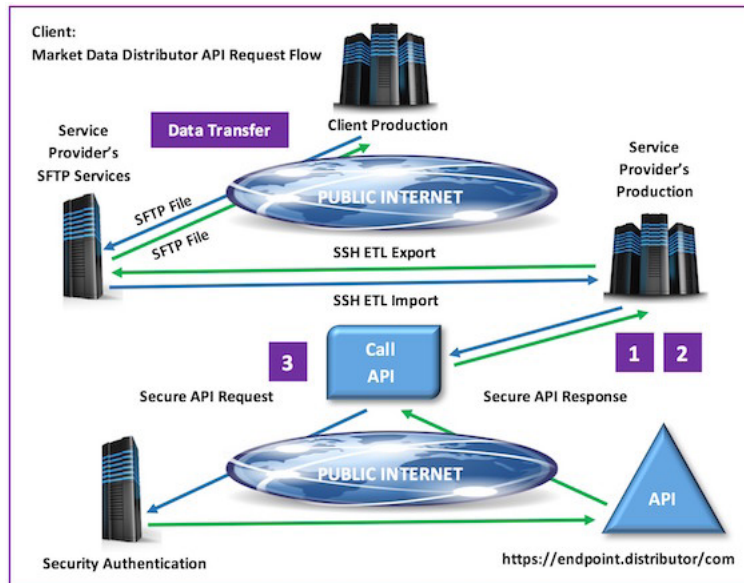
Ticker symbols are used to request market data from the MDDs per security API. In order to cater for every permutation, the API call process is dynamically managed to optimise calls to retrieve the correct market data for each asset type, until the client file enrichment can be successfully completed. Market data returned per contract then populates the client's inbound open position datasets.

Data Transfer - Enriched Open Position Data Returned to Client

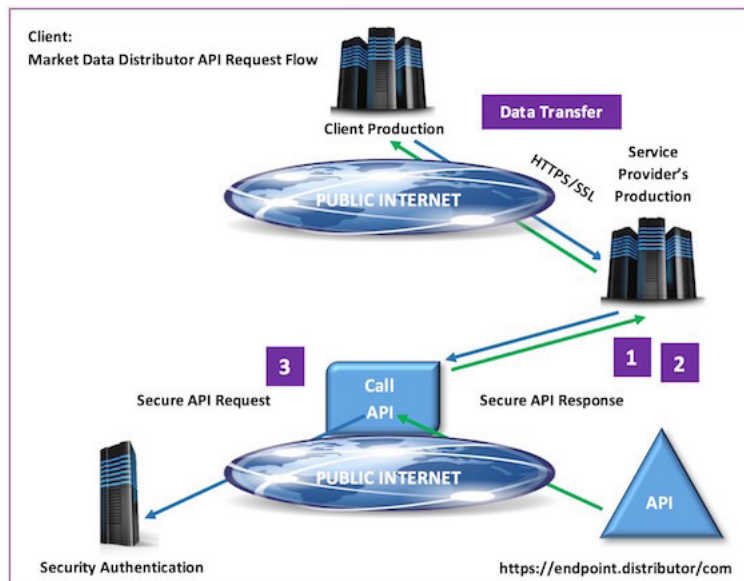
Market data enriched client datasets are then transferred securely to the client, who then loads the records into its trading systems to perform its unique portfolio management functions.

Solution Benefits

- High quality market data for small to medium firms
- Low cost access to leading market data sources
- Scalable to automatically fit operational requirements
- Market data spend optimised for open positions only.



Symbology as a Service - Process overview - using SFTP



Symbology as a Service - Process overview - using HTTPS/SSL

* First published on Bobsguide - October 2016

About Euromoney TRADEDATA

Euromoney TRADEDATA provides an aggregation service for the global exchange traded derivatives. Recognised as the specialists and innovators in the futures and options market, we are now aiming to become innovators in other asset markets. The up to date market data we provide is essential for accurate and timely settlement of trades without the additional overheads of collating, validating and maintaining in-house data.

We pride ourselves in being able to offer highly customised data feeds to integrate with any client application whether proprietary or vendor based.

We supply instrument data for over 80,000 contracts on over 110+ exchanges and are the reference data solution of choice for the world's top tier financial organisations, exchanges and regulators.