

# BMLL LEVEL 2 DATA

Highly Granular Level 2 Tick History Data (Market by Price) for All Major Equity Venues

bmlltech.com

BMLL Level 2 Quotes provides 10 levels of market depth, aggregated by price, available event-by-event. It provides an in-depth understanding of historical market activity, enabling users to make more informed trading decisions.

## CHOOSING LEVEL 2 DATA FROM THE HISTORICAL LEVEL 3 DATA SPECIALIST

BMLL Level 2 Quotes is derived from BMLL Level 3 Data. As the T+1 Level 3 Data provider, BMLL has industry-leading normalisation and harmonisation data engineering processes. Traders, quants and researchers gain the cleanest order book data available anywhere in the capital markets.

# **BMLL LEVEL 2 QUOTES SUPPORTS A BROAD RANGE OF USE CASES**

# **Buy-Side**

Accelerate your research, backtesting, and transaction cost analysis (TCA) using the highest quality consolidated data feed.

## **Sell-Side**

Backtest your execution algos and smart order routers using a greater depth of book. Demonstrate enhanced best execution to clients using ten levels of historical data.

# **Exchanges**

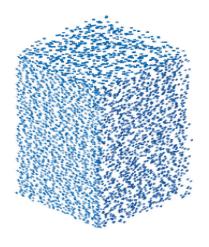
Contextualise the trading venue landscape at depth by using a Level 2 feed.

# BMLL LEVEL 2 QUOTES PROVIDES AN ACCURATE VIEW OF THE MARKET

- Highly granular Level 2 tick history data (Market by Price) for 75+ equity venues
- 10 levels of market depth, aggregated by price, available tick-by-tick
- · Bid and ask prices, sizes and number of orders included
- · Nanosecond or microsecond precision timestamps, based on order-matching engines
- · Data available from 2013 (venue dependent)

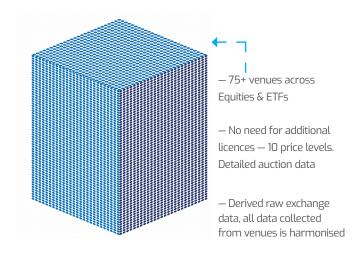
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### WE'VE DONE THE DATA ENGINEERING SO YOU DON'T HAVE TO



#### **STANDARD INDUSTRY LEVEL 2 DATA**

- Standard normalisation layer strips out vital information from rich data sets
- Standard Level 2 data parsers are unable to handle every edge-case and rate event across each venue
- Lack of single harmonised data schema across all venues and asset classes results in information loss



#### **BMLL HARMONISED LEVEL 2 DATA**

- High-precision timestamps directly from the exchange
- Production quality data parsers handle every edge-case and rare event across each venue
- Every unique field from each venue without information loss from packet capture data
- BMLL continuously improves the quality of its data. New features are added as required

#### THE BMLL FULLY MANAGED DATA COLLECTION AND CURATION PROCESS

#### **Data Collection**

#### **Venues and licenses**

- 75 venues across ETFs, Futures & Equities
- 3 separate licenses per venue
- Dedicated headcount to data sourcing and legal & commercial discussions

#### **Data Curation**

## **Daily data processing**

- Reference data & complex venue/security mapping framework
- Each venue's unique fields mapped to the data schema

#### **Data maintenance**

- Consistent and robust data testing approach

#### **Data Harmonisation**

# Data harmonisation logic layer

- Unique harmonised data schema across all venues and asset classes

# **Analytics Generation**

- Harmonised data and reference mapping allow for easy analytics computation across all venues at the millisecond level

**Analytics Generation** 

- 30bn data points in BMLL API suite derived from Level 3 Data
- 4 market-leading APIs delivering analytics Data Quality Checks

**Data Quality Checks** 

**Documentation** 

Features & Issues Feedback Loop

#### BMLL LEVEL 2 QUOTES IS AVAILABLE VIA SFTP OR SNOWFLAKE







