

## LSEG Real-Time – Ultra Direct

### Ultra low-latency market data feed handler – minimal footprint

Proven technology for market participants requiring ultra low-latency market data of the highest quality. Power your applications with our market data feed handler, which offers robust performance and comprehensive features.

Our Real-Time – Ultra Direct feed handler removes the difficult and costly work of sourcing and processing real-time market data across asset classes globally. With included libraries to power an array of applications, Real-Time – Ultra Direct offers a suite of easy-to-use tools for capture, normalisation and book-building – and you'll benefit from our deep understanding of the market data space, global coverage, and broad expertise in market data processing. You'll lower costs, make better decisions, and improve your performance.

#### Flexible and fast feed handler libraries

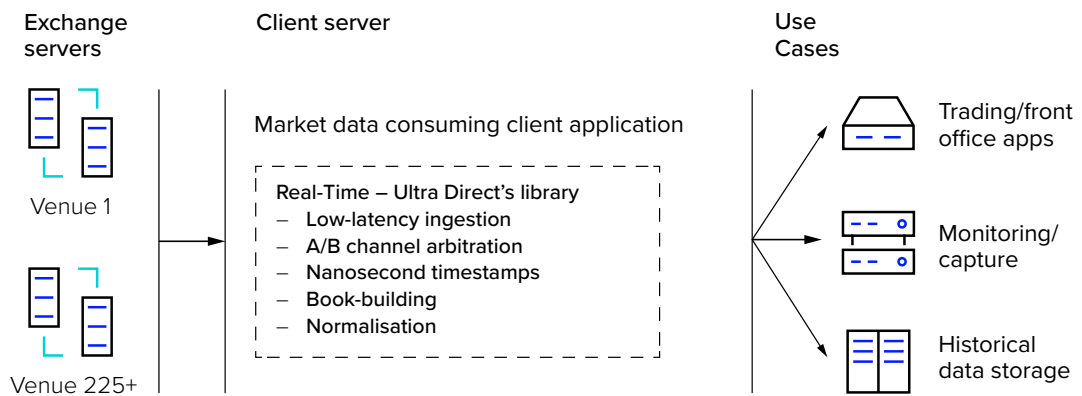
- Advanced feed handler libraries let you power applications built in C++ or Java with real-time, global market data
- In-process feed handler software library providing ultra low-latency access to market data
- Configurable based on your application's needs
- Runs on standard hardware, simplifying change management and reducing TCO
- Single high-performance software solution to process real-time and historical market data including our historical PCAP data repository, LSEG Tick History – PCAP
- Support for kernel bypass NICs such as Solarflare, Exanic, Mellanox, and Myricom. Direct integration with Solarflare EFVI for enhanced performance
- Access to normalised as well as raw exchange-native messages
- Always current – timely delivery of software updates for exchange-mandated updates
- Real-Time – Ultra Direct's robust A/B arbitration mechanism and support for exchange's native recovery mechanisms (snapshot and retransmission) provide the correct state of the market to users with resiliency
- Monitors data received over network and feed handler performance to detect gaps, ensuring lossless data
- Tools to capture real-time data in PCAP format with nanosecond precision and replay the PCAP data for historical processing and back-testing



### Book building and cross-venue normalisation

- Supports book-building for order-by-order and price level-based market data feeds
- Consistent normalisation across multiple asset classes over 250+ exchanges worldwide

### Typical Real-Time – Ultra Direct’s deployment at an exchange primary data centre



### Additional products and services

- [LSEG Real-Time – Direct](#)
- [LSEG Real-Time – Full Tick](#)
- [LSEG Tick History – PCAP](#)

