

Case Study: Supporting High Frequency Trading with Lukka



Enterprise Data Management

Overview

Lukka partnered with a leading high-frequency trading (HFT) firm to solve critical data challenges across fast-moving, multi-exchange digital asset markets. By delivering standardized, real-time market data and proactive asset mapping, Lukka helped the firm reduce operational costs, avoid trading errors, and seize early arbitrage opportunities.

The Problem

In the high-speed world of crypto trading, milliseconds matter. The HFT firm faced several major data-related hurdles:

Key challenges included:

- **High Operational Costs:** Considerable resources were spent researching and standardizing fragmented data across exchanges.
- **Missed Opportunities:** Delays onboarding data for newly launched assets meant lost access to early arbitrage signals.
- **Trading Errors:** Constant changes to trading tickers led to reconciliation issues and potential losses when not accurately tracked.

The Solution

Lukka delivered a tailored, high-performance data solution built for speed, scale, and precision:

- **Data Normalization:** Lukka's global team and automated systems standardized large volumes of raw exchange data into a unified, usable format.
- **Premium Mapping Services:** Provided asset mappings before or immediately after trading launched, minimizing time-to-market for new listings.
- **Continuous Ticker Management:** Actively monitored and updated trading tickers, ensuring accurate mapping across rebrands, migrations, and delistings.

Conclusion

By integrating Lukka's mapping and data normalization services, the HFT firm optimized its infrastructure for speed, scale, and reliability. The partnership enabled the firm to reduce costs, improve execution accuracy, and unlock early-stage trading advantages across a rapidly evolving digital asset landscape.

Snapshot

Industry: High-Frequency Algorithmic Trading

Coverage: 50+ crypto exchanges and ~1,000 new asset listings per month

Strategy: Real-time arbitrage across digital asset markets

Requirements: Quick and accurate access to standardized data.

Challenge: Manual data handling slowed opportunity capture and introduced operational risk

The Results

- ✓ Reduced operational costs by eliminating hours of manual data wrangling through automation
- ✓ Maximized trading opportunities with immediate access to clean, actionable data
- ✓ Minimized risk exposure by proactively managing tickers and avoiding reconciliation failures
- ✓ Simplified data access with a standardized, centralized feed spanning 600+ venues
- ✓ Improved lifecycle tracking to stay ahead of rebrands, delistings, and structural changes