

Market Data Platform V5™

Next Generation Market Data Platform for Today's Fast Markets

FAST FACTS

What is it?

Market Data Platform V5™ is a next generation market data ticker plant technology, designed specifically for today's high volume, latency sensitive markets.

Who is it for?

High frequency traders needing a high performance market data platform.

What does it provide?

This new platform offers rewritten, streamlined feed handlers, I/O acceleration and optimization, and ultra-high performance utilizing its Data Fabric messaging middleware.

High-frequency trading is making efficient market data distribution the key challenge for financial institutions active in today's fast markets. Low-latency data delivery requirements, surging data volumes and the development of a growing number of trading venues have all combined to create unprecedented data management challenges.

Customer Challenges

High frequency and algorithmic trading have increasing data throughput requirements. Failure to keep up can result in stale prices, unacceptable exposures and poor customer service.

• Legacy Market Data Systems

Existing client market data architectures are stretched beyond original, decades-old design parameters, and with mixed results. Many systems do not adequately handle modern data volumes from the expanding myriad of markets, while others do not deliver data quickly enough. Precious few provide both. Increasing server capacity with traditional horizontal scaling architectures – to service new markets, high throughputs and additional data points – is enormously expensive. As a result, operations staff are forced to weigh cost against speed and settle for something less than ideal.

• Lowest Latency

New approaches to minimizing latency – involving the use of Local and Remote Direct Memory Access (LDMA/RDMA) technologies – are presenting developers with opportunities to overhaul their high-performance systems while meeting a broad set of requirements for market data distribution within the enterprise. In essence, these techniques are heralding a next generation of market data infrastructures that allows programmers to do more with less.

Solution Benefits

NYSE Technologies' Market Data Platform V5™ offers a revolutionary step forward in terms of performance and scalability, while maintaining the flexibility and powerful functionality that has made NYSE Technologies the market data technology vendor of choice for the leading global financial institutions.

• 10 Times the Performance – 1/5 of the Hardware

Whether deployed as an enterprise ticker plant, to support electronic trading systems or in a co-location environment, Market Data Platform V5™ has been carefully engineered to deliver extremely high throughput and low latency message delivery, ensuring your firm's trading desk is where it needs to be – in the market.

• Revolutionary Technology

NYSE Technologies' Market Data Platform V5™ is built on top of NYSE Technologies' Data Fabric™ middleware, a proven technology that drives the most advanced ultra low latency infrastructures in the marketplace.

This revolutionary market data distribution platform can process messages from the incoming network interface card, through the feed handler layer and into a remote client application in under 40 microseconds (µs) at peak market data rates on modern commodity hardware. Market Data Platform V5™ reduces low latency jitter – which can reduce the chances of getting a fill – so that the latency characteristics are consistent even during market open or close and other volume bursts. Market Data Platform V5™ offers a streamlined processing pipeline to ensure dramatically reduced CPU utilization, while providing plenty of headroom for future volume growth.

Flexible Deployment Options

Market Data Platform V5™ lends itself to proximity hosted deployments where the feed handlers and trading applications can be installed on the same server thus netting nanosecond transport latency. NYSE Technologies' Market Access Gateway platform can be easily integrated to provide seamless order routing or distribution throughout the enterprise.

Within NYSE Technologies' Market Data Platform V5, the Middleware Agnostic Messaging API™ (MAMA™) allows programmers to develop to an abstract view of the messaging infrastructure that hides the underlying processor and network configuration allowing flexible deployment scenarios with the same code base (See Figure 1 below).

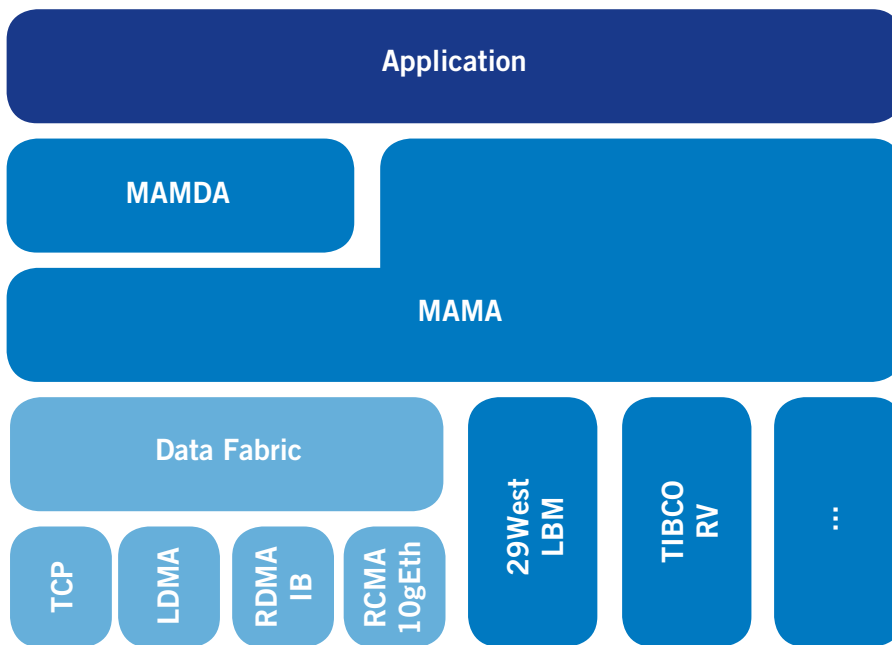


Figure 1: Application Architecture
Showing logical layers between middleware and logical data bus

Key Features of Market Data Platform V5™

- Performance – Market Data Platform V5™ represents the next generation of ticker plant technology capable of handling the market's fastest and high volume data feeds
- Cost – Reduced CPU utilization reduces cap-ex and ongoing maintenance costs
- Ease of Deployment – runs in any Linux-based hardware environment
- Flexibility – Expands on multiple CPU cores to meet your growth needs.
- Feature Rich – All the essential data management and administration tools you expect from NYSE Technologies
- Reliability – developed to the proven high-availability standard of all NYSE Technologies feed handlers
- Future Proof – Efficient CPU utilization offers headroom for ongoing data volume growth

About NYSE Technologies

NYSE Technologies provides high-performance global trading platforms, through innovative market-leading software, market data and a low-latency secure networked community. Together, our flexible and scalable products and services deliver robust, integrated solutions for all market participants from single traders to exchanges. From a single provider, these can be offered as fully deployed, hosted, managed or on-demand services.

Find Out More

NYSE Technologies Trading Solutions' business leads the financial trading technology market by providing a high speed market data and messaging platform with direct connectivity to more markets, in more countries around the globe, for more asset classes.

Contact our Trading Solutions team now for further information on Market Data Platform V5™ and our wide range of solutions.

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