

# RTI Messaging for Financial Services

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at [www.rti.com](http://www.rti.com)

## BENEFITS

- Low-latency even under load
- Reduces network overhead and need for servers
- Accelerates application development and integration
- Eases system administration
- Quality of Service can be optimized per data flow

## APPLICATIONS

- Market data distribution
- High-frequency trading
- Smart order routing
- Order book aggregation
- Risk analytics and compliance
- Enterprise integration
- Market making

RTI provides a next-generation messaging infrastructure that delivers ultra low-latency together with rich functionality.

Industry-leading performance helps you maximize order flow from clients, better analyze fragmented markets for fleeting trading opportunities and search out liquidity pools for best execution. With consistently low latency and reliable message delivery, even as message rates spike, your trading infrastructure can cope with the most extreme market conditions.

RTI's comprehensive and intelligent infrastructure allows logic to be moved from application software to the middleware, improving efficiency and end-to-end performance. This includes content-aware message filtering, Complex Event Processing (CEP), data caching and real-time data management. By minimizing application development and integration requirements, RTI also reduces IT costs and accelerates time-to-market.

Leveraging over 17 years experience in mission-critical systems spanning defense, medical, industrial and financial services applications, RTI's technology has been truly battle-tested in hundreds of the world's most demanding and time-critical systems.

### Key Features

#### *High performance and scalability*

- Latency as low as 30 microseconds over Gigabit Ethernet
- Throughput up to millions of messages per second
- Reliable multicast for efficient high-fanout data distribution
- Automatic mitigation of slow consumers

#### *Rich, intelligent infrastructure*

- Messages can be filtered and subscribed based on content, not just topic or subject



- Complex Event Processing (CEP) for real-time analytics and easy creation of event-driven applications
- Integrated data cache, including last and historic values
- Database integration for data management and interoperability with SQL applications
- Message recording for backtesting, auditing and compliance
- Detailed statistics to monitor middleware behavior and identify areas for attention

#### *Extremely efficient to reduce required investment in network infrastructure and servers*

- True peer-to-peer communication with no broker or daemon processes significantly reduces the need for servers
- Pre-defined data types provide flexibility of self-describing messages without the network overhead
- Data sent in compact binary format
- Highly tunable to balance latency, throughput and resource consumption
- Traffic shaping for control over network utilization

#### *Fault tolerant*

- No single point of failure
- Automatic publisher failover
- Message persistence and durable subscriptions



## RTI Messaging for Financial Services product information

### Eases system administration

- Single product for low latency, persistent and desktop messaging
- Applications are automatically discovered and connected
- Flexible profile-based configuration

### RTI Messaging includes the following components:

#### RTI Data Distribution Service

The core of RTI Messaging is a high-performance integrated messaging system combined with distributed in-memory data caching.

RTI Data Distribution Service offers overall end-to-end performance via a data-centric communication model, smart history management, smart filtering, and smart application data-type management.

RTI Messaging complies with the industry-standard Object management Group (OMG) Data Distribution Service (DDS) for Real-Time Systems.

#### RTI Add-In for Excel

RTI Add-In for Excel seamlessly integrates Excel into the RTI messaging system, allowing Excel spreadsheets to both publish and subscribe to data. No custom development is required since RTI messaging can use the content-aware capability to automatically display each field into individual cells.

#### RTI Persistence Service

RTI Persistence Service provides reliable data availability. It ensures that data is available where and when needed, even if publishers and subscribers fail, join or leave the system.

#### RTI Real-Time Connect

RTI Real-Time Connect integrates enterprise databases with real-time applications. RTI Real-Time Connect offers database throughput of up to 80,000 messages per second or 950 megabits of data per second.

#### RTI Routing Service

RTI Routing Service eases the scaling and integration of low-latency systems across WAN and System of Systems, allowing

applications to communicate seamlessly, even if deployed in different locations or support different interfaces. It can also be customized to interoperate with your legacy messaging system, reduce the migration effort and shortening your time-to-market.

#### RTI Developer Platform

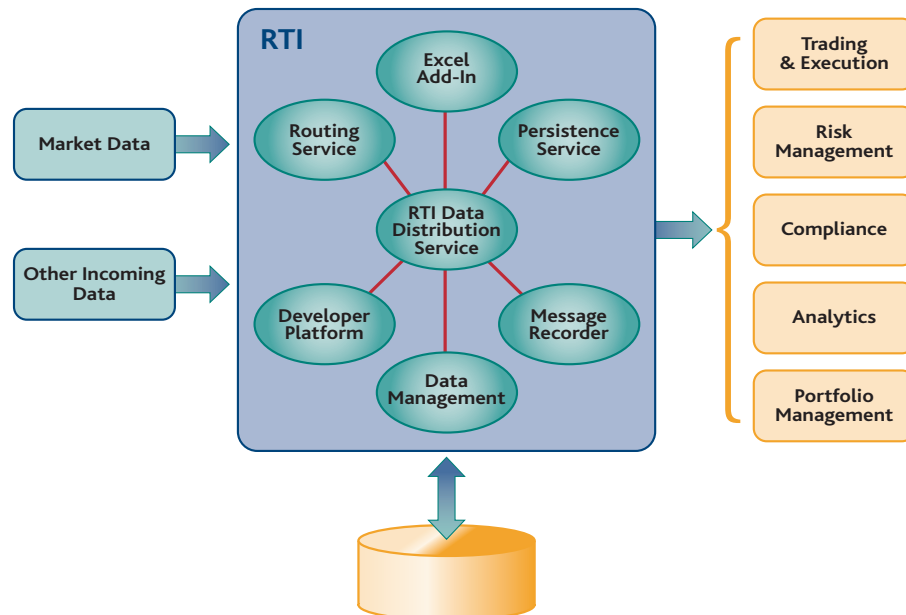
RTI Developer Platform provides integrated debug and monitoring tools that speed application development and deployment.

#### RTI Recorder

RTI Recorder provides non-intrusive recording of high-rate data, messages and events for backtesting and future analysis.

### RTI Services

- **RTI Support**—Offering world class customer support with 98% satisfactory rating
- **RTI Consulting Services**—Experienced engineers who complement your team's skills and resources
- **RTI University**—Hands-On Training from The Real-Time Middleware Experts™



RTI provides a comprehensive low-latency infrastructure

### About RTI

Real-Time Innovations (RTI) is a leading provider of extreme performance messaging, real-time data management and complex event processing software. RTI's technology has been proven in over 400 mission-critical applications in financial services, medical, transportation, communications, industrial control, aerospace and defense. Customers include PIMCO, Automated Trading Desk, Varian, Nikon, Schneider, Lockheed Martin and Raytheon.

Founded by Stanford University scientists in 1991, RTI is privately held and headquartered in Silicon Valley.

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