

THOMSON REUTERS MACHINE READABLE NEWS

DISCOVER. DIFFERENTIATE. DEPLOY.

Thomson Reuters Machine Readable News is the industry's most advanced service for automating the consumption and systematic analysis of news. It delivers deep historical news archives, ultra-low latency structured news and leading edge news analytics directly to applications. This enables algorithms to exploit the power of news to seize opportunities, capitalize on market inefficiencies and manage event risk.

FUNCTIONALITY AND FEATURES

NEWS ARCHIVE

With Reuters News content dating back to 1987, and comprehensive news from over 50 third-parties dating back to 2003, the News Archive is designed for building and back-testing algorithms and researching how news has moved markets. The archive includes every alert, story, update, correction and deletion from 2003 – each with a rich array of metadata noting the stage of the story, company identifiers, topic codes, headline tags, and other valuable information. Sources include Reuters News as well as select third-party sources such as PR Newswire, Business Wire and the Regulatory News Service (LSE), among others.

When used alongside Thomson Reuters Tick History, the News Archive enables users to search for hidden correlations between reported events and past trading behavior. With a common symbology and synchronized time-stamp, it can be seamlessly integrated into a client's databases so users can track how a story evolved and understand the impact of each piece of the story on the market.

NEWS FEED DIRECT

Using cutting edge technology, our News Feed Direct delivers an ultra-low latency direct feed of machine readable news designed specifically for application consumption. The feed offers full text and comprehensive metadata via streaming XML broadcast and assured delivery to ensure you never miss an important event. Co-location, dedicated communication lines, and internet connections are among

the connectivity options offered at our sites in the New York metro area, London, Chicago and Washington, D.C.

News Feed Direct's content includes:

- Proprietary, machine-readable, market-moving news from Reuters and select third-parties
- Ultra-low latency machine readable economics, the fastest on the market
- Advance feed of the results from University of Michigan Surveys of Consumers – An exclusive early release of the monthly data, designed specifically for algorithmic trading applications
- Structured Company Events for data such as earnings and revenue extracted automatically from company press releases
- Credit Ratings data, offering corporate, sovereign and municipal debt ratings

EVENT INDICES

Event Indices, powered by Andrew Lo and his team at AlphaSimplex, measures the frequency of news across various categories such as macro-economic, natural disaster, violence and bullish or bearish topics. When the level of news in a given category reaches a certain threshold, signals are sent to a user's trading and risk management system, highlighting potential market movements. Event Indices can predict volatility in key asset classes, such as foreign exchange and equities.

Event Indices is backed by extensive research and historical data for back-testing and is delivered in real time via a data feed for access by trading and risk management systems.

THOMSON REUTERS NEWS ANALYTICS

Thomson Reuters News Analytics converts qualitative information into quantitative scores so users – both machines and humans – can quickly analyze thousands of news stories in less time than it takes to read a single headline. Thomson Reuters delivers a unique set of real-time news analytics which can be incorporated into trading and investment models to exploit market opportunities and manage risk.

Thomson Reuters News Analytics use sophisticated Natural Language Processing (NLP) techniques to score news items on tens of thousands of companies and nearly 40 commodities and energy topics. Items are measured across the following dimensions:

- Author sentiment – metrics for how positive, negative or neutral the tone of the item is, specific to each company in the article
- Relevance – how relevant or substantive the story is for a particular item
- Volume analysis – how much news is happening on a particular company
- Uniqueness – how new or repetitive the item is over various time periods
- Headline analysis – denotes special features such as broker actions, pricing commentary, interviews, exclusives, and wrap-ups, among many others

The system's output can be used to power quantitative trading across markets, asset classes, and all trading frequencies, support human decision making, and assist with risk management and asset allocation decisions.



THOMSON REUTERS™

INDISPENSABLE, GLOBAL NEWS COVERAGE

Reuters is the world's largest international news agency, with over 2,800 journalists in almost 200 bureaux around the world. We gather and edit news in 21 languages, 24 hours a day, 365 days a year, applying our principles of independence, integrity and freedom from bias every step of the way. For more than 150 years, Reuters has been associated with breaking the world's top news.

- **Equities** – We cover 12,000 companies globally, tracking short and long-term leads in key industries such as banking and financial services, M&A, technology, telecoms, media, retail and consumer goods, insurance, airlines, aerospace, defense, automotives, engineering, energy and utilities
- **Economic data** – Covering over 1,000 economic indicators including an ultra-low latency feed of the most important events, we ensure you have access to the economic news that drives markets worldwide
- **Commodities** – Get real-time, 24/7 coverage of base and precious metals, grains, oilseeds, livestock and soft commodities
- **Energy** – We report events that move the markets on crude, petroleum products, power and gas and emissions
- **Currencies** – Anything and everything can affect foreign exchange, and our team of experienced FX journalists is there to tell you what's happening and why it's important. Our currency specialists located in developed and emerging markets worldwide provide regular insights on currency dealing
- **Fixed income** – We provide around-the-clock coverage and breaking news of credit instruments, asset types and primary/secondary markets, from major government and corporate

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debt to the markets in asset-backed securities, mortgage-backed securities and municipal bonds

- **Political and general news** – Whether it's an election, a war, or a disaster, you can trust Reuters to be there and report the news to help you make more informed decisions. We focus on news that impacts political, security and investment risk in key emerging markets, with a premium on politics, legislation, economic policy, civil and labor unrest, terrorism, corruption and crime

ADVANTAGES**EXCLUSIVE CONTENT**

Offers unique and exclusive news content as well as leading-edge proprietary news analytics.

FLEXIBLE USE CASES

From the most demanding high frequency quantitative trading strategies, to the most basic trading and investment needs, Thomson Reuters Machine Readable News supports user requirements in all markets across all asset classes.

SUPPORT AND DEVELOPMENT

Training and expertise is offered to all users and a development support community is available to help build in-house capabilities.

THIRD-PARTY INTEGRATION

In addition to Reuters market moving proprietary news, Thomson Reuters also integrates over 40 key third-party providers into the same feed – delivered via the same API with a consistent format and metadata. Information is also provided over our market-leading robust data platform, Thomson Reuters Enterprise Platform for Real Time, which powers some 50,000 applications at over 2,600 sites worldwide.

HOSTING SOLUTIONS

Thomson Reuters Machine Readable News is available as a deployed solution, or hosted by Thomson Reuters Elektron as a managed service.

WHY THOMSON REUTERS?**Un-matched depth, breadth and speed of information** –

Thomson Reuters provides the most comprehensive and differentiated data for all stages of the alpha-generation process; from data acquisition and preparation, to testing hypotheses, back-testing, optimization, and eventual deployment of the strategies in a real-time environment, worldwide.

Enhanced flexibility –

Thomson Reuters Machine Readable News data can be delivered as a deployed solution at a customer's site, via our hosting solutions, or through Thomson Reuters Quantitative Analytics. The system leverages Thomson Reuters standard APIs, symbology, and robustness of the Thomson Reuters Enterprise Platform for Real Time which powers some 50,000 applications at over 2,600 sites worldwide.

Powered by Reuters News –

Thomson Reuters Machine Readable News is powered by Reuters News and so benefits from over 150 years of experience. Reuters News boasts over 2,800 journalists in 200 bureaux worldwide. It is seen by 1 billion people daily and generates over 800,000 alerts and 2.5 million unique stories in 21 languages.

Part of a complete quant solution –

Thomson Reuters Quant and Event Driven Trading provides unique content, technology and data management capabilities designed to give firms the edge in quantitative research and analysis. Our market data, news and analytics enable clients to more effectively develop and back-test event-based investment and quantitative trading strategies. The solution also allows seamless deployment of such strategies in a real-time environment for the generation of alpha and the management of event risk.

