

THOMSON REUTERS DATASCOPE REFERENCE DATA

GLOBAL AND COMPLETE DATA COVERAGE

Thomson Reuters delivers the most comprehensive market and reference data to the global financial and investment management community. Thomson Reuters is an originator, consolidator and value add re-distributor of security and financial instrument data with hundreds of sources and partners. The flexibility and breadth of our coverage fits virtually any enterprise or application data requirement.

Through Thomson Reuters DataScope, we provide access to timely, superior quality data sets covering every asset class globally. The coverage includes end-of-day prices from 180+ exchanges, spot rates on 175 currencies and corporate actions on over 50,000 companies globally. Fixed-income coverage includes governments, corporates, loans, convertibles, high yields, municipals and asset-backed and mortgage-backed securities; in addition, we provide rich content across derivatives, money/foreign exchange and warrants.

FUNCTIONALITY AND FEATURES

DEPTH AND BREADTH OF DATA

SYMBOL CROSS REFERENCE AND ENTITY MANAGEMENT

Our coverage includes many internal and external entity sources that span 2.9 million organizations, 2.4 million instruments, and 6.2 million quotes. Advanced security and instrument identification and industry classification schemes help you navigate, view and organize your data more effectively.

COUNTERPARTY AND LEGAL ENTITY

Gain instant access via FAST Technology (Microsoft subsidiary, pioneer in search technology) to key data attributes audited to the primary source on businesses across nearly 180 countries, with public and private companies, and public sector organizations such as municipalities and state governments. Simplify legal entity data management with Thomson Reuters quality control procedures, including re-papering with source documentation a minimum of once a year. Ease the burden of compliance by meeting global regulatory obligations and mitigate your risk exposure by cross-referencing via a managed link between Reuters Instrument Codes (RICs) and Reuters DataScope Counterparty Identifier (RCP ID).

REFERENCE DATA, TERMS AND CONDITIONS

Provides full terms and conditions data, including ratings and descriptive content, for each asset type. All terms and conditions data is validated by Thomson Reuters through an extensive Quality Assurance program. We maintain extensive market-level and issue-level industry standard numbering codes associated with each equity instrument including official clearing

code identifiers (SEDOL, CUSIP, ISIN, Wertpapier, SICC, Local Exchange codes MIC/OPOL), Classifications such as GICS, Thomson Reuters proprietary (Thomson Reuters Instrument Codes), Thomson Reuters internal system-generated company level, issue level codes, and all futures and options carry underlying Thomson Reuters Instrument Codes for easy cross-referencing, linking and integration.

CORPORATE ACTIONS

Global reach, local knowledge with over 200 data experts dedicated to the collection, analysis and quality control of equity corporate actions content. Corporate Actions data spans 80 countries, 131 exchanges, approximately 58,000 companies, and more than 15 years' history for all mature markets. Data delivery is intra-day and measured on a four-hourly target, from source to database entry. Delivery format includes fixed format and ISO 15022

- 5 -10 years of history for emerging markets with comprehensive list of fields
- Same-day event coverage from announcement to completion
- Quality control and quality assurance built into data collection processes
- Over 100 database validations on our source databases, checking data before it reaches our products

HISTORICAL TIME SERIES PRICING

Thomson Reuters has pricing history going back more than 20 years, thus as a general rule, approximately 20 years of price history is available for established equity markets and 20+ years for Money and Index data. For most emerging equity markets, data goes back to the first day of trading. Subscribers to the DataScope History Service receive price

histories for all live and delisted securities. For Futures markets Thomson Reuters has 10 to 15 years of history.

All data is cross-checked and delivered in customized data sets, including:

- Reference Data with Terms and Conditions
- Corporate Actions
- Deep Analytics
- Pricing (intra-day, validated end-of-day, historical)
- Evaluated Pricing Service

FLEXIBLE DELIVERY

Thomson Reuters DataScope delivers a variety of data packages across a wide range of delivery platforms and technologies, making it easy to integrate into your enterprise.

- Immediate access via request/retrieve to comprehensive reference data and pricing via DataScope Select
- Intra-day and End-of-day deliveries of corporate actions and pricing
- User-friendly customizable web interface which offers delivery by FTP, CSV and XML with custom file layout
- ISO 15022 industry-standard corporate actions messaging
- Regional and global packages via large-volume bulk delivery or customized, portfolio-based retrieval



WHY THOMSON REUTERS?

Global coverage – We provide global coverage on reference data including: Terms and Conditions; Symbology and Entity Management; Symbol Cross Referencing; Time Series Pricing; Corporate Actions.

Timely – We offer end of day delivery of prices in line with a wide range of market closes and we offer intra-day pricing. We are continuing to expand this capability and have a proven record of responding quickly to client requests.

Data coverage – We provide access to timely, superior quality data sets covering every asset class globally.

ADVANTAGES

EXTENSIVE BREADTH OF DATA

Our extensive reference data and related financial information provides you with the content you need to enable your security master management, asset setup, enterprise data management, automated corporate actions processing, compliance and exposure reporting, and many other financial workflows, thus reducing manual intervention, information management costs, and operational risks, as well as improving operational efficiencies.

QUALITY SERVICE

We employ highly experienced data professionals positioned globally within their respective markets and securities expertise delivering the most accurate and robust securities and investment instrument reference data, terms and conditions and pricing to our clients.

We continually monitor data quality metrics that track accuracy, timeliness and completeness. We use the findings to improve our workflow and data capture processes. In addition, we have focused on expanding our teams to increase the depth of our terms and conditions coverage.

By centralizing the creation and maintenance of organization-level reference content, we have improved the consistency and quality of our data. Further value is obtained by connecting your content to Thomson Reuters content.

FOR MORE INFORMATION:

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THOMSON REUTERS DELIVERS THE MOST COMPREHENSIVE MARKET AND REFERENCE DATA TO THE GLOBAL FINANCIAL AND INVESTMENT MANAGEMENT COMMUNITY.

GLOBAL FIXED INCOME COVERAGE

- Governments
- Semi-Governments (Agencies)
- Corporates
- Supranationals
- Certificate of Deposits
- Commercial Paper
- Eurobonds
- Convertibles
- Asset-Backed Securities (ABS, RMBS)

US FIXED INCOME COVERAGE

- Governments and Corporates
- Mortgages
- CMOS / ABS / CMBS
- Municipals
- Loans
- Treasuries
- Agencies
- Investment Grade Corporates
- High Yield Corporates
- Convertibles / Aggregates
- Generics
- TBAS
- ARMS
- Project Loans
- Pools Agencies CMOS
- Asset Back Securities
- CMBS Tranches
- Whole Loans
- Student Loans
- SBAs Active / Inactive Maturities
- SBAs Active / Inactive Loans

OTC DERIVATIVES (SUBSET)

- Interest Rate
 - IRS
 - Swaptions
 - Caps and floors
 - Total Return Swaps
- Credit
 - Bond CDS
 - Index CDS
 - Loan CDS
- Equity
 - Options
 - Total Return Swaps
 - Dividend Swaps
- Commodity Swaps
- Currency
 - Options
 - Forwards

COMPREHENSIVE CORPORATE ACTIONS EVENT COVERAGE

- Shares On Issue – Multiple types including Outstanding, Issued, Listed, Free Float, Closely Held, Authorized Earnings
- Year to date and interim results. As reported and annualized figures
- Dividends – Cash distributions, including special and extraordinary stock dividends as well as dividends with stock options annual, semi-annual, quarterly and monthly
- Comprehensive tax details including Withholding, QDI, Franked and Foreign investor tax rates
- Capital Changes – Stock distributions including Rights Issues, Bonus Issues, Splits, Demergers and other capital restructures
- Cash events including Return of Capital, Share Buybacks IPO s and Follow On Offerings
- Equity issuance events including: IPOs, Direct Public Offerings, Placings, Rights Issues, Private Investment in Public Equity Mergers and Acquisitions

FIXED INCOME

- Access to over 5.6 million active and retired securities.
- Terms and conditions for over 1.3 million US taxable fixed income securities, 200,000 loan facilities, 2.3 million US municipal securities (1.2m live), non agency CMO's, Asset Backed securities and 450,000 international bonds spanning all asset subtypes
- Mark-to-Market pricing for US syndicated loans, in association with The Loan Syndications and Trade Association, and European syndicated loans
- Evaluated pricing for over 1.2m live US Municipal Securities
- Global premium evaluated pricing from the Thomson Reuters Pricing Service together with Thomson Reuters Composite Pricing
- Global broker/dealer contributions from over 600 contributors and exchange pricing from over 70 exchanges
- 60 global government yield curves with histories dating back to 1993
- Over 175 proprietary analytics providing a full view on each fixed-income instrument daily – including duration, convexity, OAS analytics and yield calculations
- Global ratings data from over 20 top agencies including S&P, Moody's, Fitch, ICMA and Dominion Bond Ratings Service, and key regional agencies in Asia such as JCR

EQUITIES

- Global terms and conditions
- Minimum 20 years pricing history for G7 countries
- Global equities coverage including: Equities (stocks, ADRs, GDRs), Warrants (equity, index, basket), Funds (exchange-listed, ETF, NAV), Indices, Options, Options on Futures, Futures, Money and FX (forwards and swaps)

More than 3.2m securities worldwide:

- Equities 300,000
- Warrants 745,000
- Indices 28,000
- Funds 87,000
- Options 880,000
- Options on Futures 865,000
- Futures 250,000
- Money 57,000

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