

# Doing data differently





# Helping the global financial community make informed decisions through the provision of comprehensive, accurate, timely and affordable securities and economic data services

With more than 30 years' experience, we offer comprehensive and accurate securities reference, corporate actions and pricing data for derivatives, equities, fixed income, and investment funds around the globe. We also cover economic data extensively.

We understand how crucial financial and economic data is and take a different approach as to how we proceed:

- We do not rent data, we sell it
- We do not have onerous redistribution rules
- We customize our services to meet your needs
- We cover all countries no matter how large or small
- Finally, we offer competitive prices

As a result of our on-going commitment to providing cost-effective and innovative data solutions, while ensuring the highest standards, EDI has achieved the internationally recognized quality and security certifications ISO 9001 and ISO 27001.

Headquartered in the United Kingdom, we have operations in Australia, Canada, Germany, India, Morocco, South Africa, and the United States.

Our Support Team is available on +44 (0) 207 324 0020, 24 hours a day, Monday to Friday, and closed on Christmas and New Year's Day.





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Russian

Slovene

Spanish

Swedish

Turkish

Uzbek

Vietnamese

Thai

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Slovakian



# **Data Sourcing**

EDI collects information from more than 600 sources daily. Local exchange is the preferred primary source of every market, however, the extensive nature of EDI's products and services make it essential for us to draw on additional sources to complete the data sets.

EDI ensures the breadth and depth of its data isn't surpassed by collecting data from a minimum of two sources for 85 per cent of exchanges.

Once data is collected and entered into the correct database, we work to ensure it is complete and clean before it reaches our customers. We translate 36 native languages into English every day:

- Arabic •
- Bosnian •
- Bulgarian •
- Chinese •
- Croatian •
- Czech
- Danish
- Dutch
- Farsi

- Finnish French
- German
- Greek
- Hebrew
- Hungarian
- Indonesian
- Italian
- Japanese

- Korean -
- Latvian •
- Macedonian
- Malav
- Nepali
- Norwegian
- Polish •
- Portuguese •
- Romanian

# **Bespoke Data Offerings**

EDI has built up infrastructures in India and Morocco, including a workforce, skilled in interpreting and analyzing financial data from over 120 countries. The company has offices in Mumbai (200 people), Morocco (60), Vellore (155 people), Trichy (131 people). The offices are fully contingent.

Recently EDI Has begun to offer its facilities to 3rd parties, whereby they have outsourced the building and maintenance of their core data products. EDI also offers these facilities for companies providing niche financial information products.

EDI is an expert in financial data and all processes are fully documented. Procedure manuals are instantly updated to reflect the currency situation.

# **Consultancy Services**

# **Back-office operations**

Collectively or as discrete activities. Ell Consulting can offer advice and guidance to maximize the value of data received from sources ranging from Depositories, Exchanges, Custodian Banks and Data Vendors.

With a focus on Asset Servicing and ISO Standards, FII Consulting can assist in redesigning your operation to meet the new challenges faced by the Financial Services industry.

#### Analysis

- In-depth review of your current procedures, data integration and workflow to identify inefficiencies and risk • conditions.
- Onsite or virtual interviews with key personnel.
- Weekly reporting on analysis progress and recommendations industry.
- Create a Strategic vision to maximize your data use with a roadmap to get you to where you need to be for data implementation.
- Establish an implementation plan with your internal and external counterparts, clients and data providers to implement your strategic vision.
- Develop an RFP for third-party providers, if the plan recommends the adoption of new products or service offerings.

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#### Implementation

- Provide guidance towards installation of the components identified within the Implementation Plan.
- Create a detailed User Acceptance Testing Plan with appropriate test scripts and success measures.
- Manage the testing and training of your teams to support the onboarding of new products and services.

# **Outsourced Translation**

As part of Exchange Data International, the global provider of security, corporate actions, pricing, and reference data, we have been translating financial notices and news for 6 years.

Building on this experience, EDI has now brought translation services in-house to include documents of both financial and legal nature.

With a dedicated team of 50 human translators, EDI ensures the high-quality translations that clients expect. The team is organized into specialized linguistic groups, each focusing on specific language pairs:

Arabic/English, French/English, Spanish/English, Italian/English, German/English, Russian/English, Portuguese/English, and Dutch/English.

#### EDI can provide a broad range of legal and financial, certified translations, including:

Annual & Business Reports

**Arbitration Proceedings** 

Audit Reports

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- Financial Statements
- Management Reports
- Pleadings
- Banking Documents
- Employment Contracts
- Service Contracts
  Shareholder Agree
- Shareholder Agreements



# **Corporate Actions**

#### **China A Listed Companies Call Transcripts**

#### The China A-Listed Companies Earning Call Transcripts is in partnership with Orbit Financial Technology

China is the second-largest economy in the world, and its stock market capitalization is also ranked just next the United States. Due to the less matured governance and language barrier, it is difficult for foreign investors to understand China A-listed companies and the Chinese economy in general. Orbit has launched the earning call transcripts dataset with the highest data quality for all types of investors, from long-only, proprietary to quantitative funds, from buy-side to sell-side.

#### Identify securities together with their associated standing data.

- 1. Earnings Call Transcripts
- 2. Public disclosures on broker onsite research
- 3. Executive official response on online platforms

Languages: Chinese and English

#### **China Equities Guide**

#### High-Quality Intraday Transaction Data from ChinaTickData

Discover comprehensive datasets from ChinaTickData, featuring high-quality intraday transactions for all securities listed on Chinese stock exchanges. Our data is meticulously compiled to support quantitative trading, back testing, machine learning, and a variety of advanced applications.

Important Note: In China, stock tick data is captured as one snapshot every 3 seconds.

#### **Snapshot Prices**

Every trade occurring between snapshots contributes to the overall volume change, which is reflected in both RMB amounts and traded volume. Even if no changes are detected from the last snapshot, a new snapshot will still be recorded, with the only update being the timestamp.

#### Timestamps

All timestamps are provided in China Standard Time (CST).

Excel automatically attempts to convert millisecond timestamps into its time format, which may result in errors. To avoid this, ensure you convert the millisecond timestamps to text during the import process.

#### **Dividend Forecasting Service**

The Dividend Forecasting Service is the world's most comprehensive forecasting solution, providing forecasts for over 25,000 securities, including equities, ADRs, and ETFs. EDI's clients rely on this service for stock selection, income planning, option pricing, and index calculation.

#### Algorithm Forecasting Methodology

Using a hybrid algorithm+ analyst approach to accurately calculate future dividend payments and date associated with the vast array of securities across the global market. Woodseer incorporates EDI worldwide corporate action database extending back to 2012 to build up patterns of dividend payments, identify changes in shares in issue (through rights issue, consolidations, bonus issues and subdivisions) and record various types of distributions.

Combining algorithmic calculations with input from a UK based analyst team, the process involves reviewing dividend history, incorporating changes to the issued, share, capital, identifying patterns, and calculating forward dividend amounts and dates up to two years in advance. Where a clear pattern cannot be identified (e.g., Due to a recent change in fiscal year-end date, a resumption, or cut of dividend, or alteration in the dividend payment pattern) the security is flagged to our analyst who performs individual market research to forecast the data.



# Initial Public Offerings (IPOs)

#### Stay ahead of the game with IPO data.

EDI monitors IPOs using local stock exchanges as the primary source of information, along with additional secondary sources, such as local and international news sources as confirmation. Announcements are captured at six different stages:

New	The IPO is complete, and the listing date is today or yesterday.
Pending	The IPO is confirmed, and the necessary approval has been given.
Rumor	The company or another respected source has announced the intention to hold an IPO before the necessary approval has been given.
Postponed	The IPO has been deferred.
Withdrawn	The company has cancelled the IPO.
Historical	The IPO has taken place and the listing that is more than two days ago.

# North American Exchange IPO Service

FII offers a specialized IPO service that extends beyond traditional IPOs, delivering indispensable data and actionable insights for the financial investment industry.

#### **Comprehensive Product Coverage:**

FII's coverage includes IPOs, Direct Listings, and SPACs. This broad scope ensures a holistic perspective on market entry strategies, providing clients with complete and accurate market insights.

#### Expert SPAC Activity Monitoring:

FII specializes in tracking SPAC activities, providing clients with insights from inception to potential dissolution. This continuous monitoring empowers users to navigate the dynamic SPAC landscape effectively.

#### Proactive Calendar and Alert System:

The service includes a future calendar and alert system tailored to notify clients about critical events such as Stabilization Periods, Lock-Up Expirations, and Quiet Periods. This proactive system allows clients to stay informed and act with confidence.

#### Structured Data Framework:

FII's data architecture ensures clarity, accessibility, and seamless navigation. Data elements are categorized efficiently for each IPO security, enabling clients to retrieve and analyze information with ease.

#### **Tracking Trading Dynamics:**

The service analyzes trading dynamics around pivotal dates, such as the end of Lock-Up periods, offering valuable insights into market sentiment and investor behavior.

#### Unveiling the Full IPO Timeline:

FII delivers a detailed IPO timeline, mapping out the entire process from inception to post-listing activities. This meticulous approach ensures a thorough understanding of each stage in the IPO lifecycle.

Processing Data	Issuer Details	Offering Details	Issuer Financials	Risk Factors	Dilution
Type of offering	Organization	Pricing	Use of Proceeds	List of Risk Factors as provided by the Issuer	Dilution prices based upon Quantity of IPO Securities issued and outstanding
Event ID	Business Line	Quantity	Year End		-
IPO Stage	Industry				
Processing Dates					



# **Readable Corporate Action Notices (RCAN)**

The Readable Corporate Action Notice (RCAN) product offers 'readable' documents that combine all the data elements from a typical corporate actions data feed corporate (e.g. a Microsoft Excel, CSV, or XML files) into a human-readable format, similar to a news feed.

Unlike traditional feeds where components are separated and require re-linking in a client-side database, RCAN provides a complete, unified message.

RCAN goes even further than this, supplying various change management features, links to related notices and even additional data points that are not found in the database from which it is derived.

The notices are displayed in logical sections starting with 'REFERENCE DATA' in a simple style, followed by "EVENT DATA". Where applicable, sections like 'RELATED EVENTS' and 'PAYMENT OPTIONS' follow. If the event has been noted the Notice will conclude with a 'DOCUMENT NOTES' section containing the original source document text on which the EDI event data is based.

The intraday RCANs are provided throughout the day as PDF or XML file formats and can be delivered by email, FTP, API, RSS, or via a search platform. Additionally, start-of-day and end-of-day summary reports are available to clients that wish to receive a consolidated list of this information.

### Security Class Actions

Financial institutions have a fiduciary duty of care to their clients who may be shareholders in companies accused of misconduct. Those acting on behalf of disadvantaged shareholders must ensure they inform their clients of their rights and entitlements.

EDI offers a cost-effective, reliable service that meets the needs of financial institutions by providing a viable, efficient, and flexible solution for securities class actions, bankruptcies, and government disgorgements.

EDI equips institutions and their eligible clients with the necessary tools to claim settlement funds and supports them through every stage of the securities class action process - from the initial alerting of a complaint to the filing of proof of claim forms.

### US Bankruptcy Data

US Bankruptcy Data allows subscribers to spend less time looking for business bankruptcy information and more time using it. Clients can power their analysis, streamline their search and monitor efforts with in-depth bankruptcy information right at the fingertips.

The case information for all companies that file bankruptcy in the 94 U.S. Bankruptcy Courts is imported and updated daily, currently consisting of more than 500,000 bankrupt companies.

In addition to a compressive database, we "track" and write news about every public company currently operating under Chapter 11 protection. This process allows us to continue collecting information about public company bankruptcy.

EDI covers over 340 data fields, including plans of reorganization, disclosure statements, debtor-in-possession financing, professional retention details, Section 363 sale motions, key employee incentive plans, monthly operating reports, claim transfer activity, securities and pricing data, committee information, and much more.

US Bankruptcy Data is available through SFTP, API and Flat files. Bankruptcy bulk data can be used in applications for:

- Credit Risk Models
- Customer Profiling
- Investment Screening
- Creditor Profiling
- Bankruptcy Emergence data
- Creating trading signals in combination with other data



# Worldwide Dividend (WDI)

As a subset of the Worldwide Corporate Actions service, WDI focuses exclusively on dividends, simplifying the process of managing information about shareholder payments, including amounts and payment dates. WDI is available both as a data feed and through EDI's website.

The service includes a portfolio import facility, allowing users to upload portfolio details to the website using ISINs or local ticker codes. Once uploaded, users can generate detailed dividend reports for the securities within their portfolios. Dividend announcements cover cash dividends, stock (scrip) options, and multiple payment choices, including support for foreign currency options.

In addition to the existing 4 daily feeds, EDI has introduced an extra email notification for WDI. This notification highlights any dividends announced or updated on the day, with an ex-date on the following working day.

# Worldwide Derivative Equity Corporate Actions

DerivActions provides detailed Exchange Adjustment Notices information in a standardized, machine-readable format with a link to the original Exchange Notice, where available.

DerivActions generates 2 feeds, triggered by corporate actions on the underlying security:

- Derivative Issuers List of all issuers with instruments linked to the affected underlying.
- Derivative Series & Trading Lines List of all the derivatives instruments linked to impacted equity.

#### Receive only what you are interested in.

DerivActions is directly linked to EDI's Worldwide Corporate Actions service and therefore covers all corporate action event types. Clients can subscribe to the full universe or customize the feed at an exchange level, root codes or specific underlying trading lines.

For example, clients can choose to receive details for OPRA or any other relevant exchange on the following event types only:

- Bonus
- Buy Back

- Dividend
- Merger
- ConsolidationDelisting

- Name Change
- Rights

- Spin-Off/Demeger
- Subdivision
- Take Over
- Tender Offer

# Worldwide Equity Corporate Actions (WCA)

From New listings to bankruptcies, the Worldwide Corporate Actions service covers events affecting equity shares, capital, ETFs, covered warrants, warrants, depository, receipts, structured products, and bonds traded as equities.

The Corporate Action service focuses on crucial events, which can be divided into four main categories

Securities Exchange Event	Static Data Change Events	General Events	
<ul> <li>Certificate Exchange</li> <li>Demerger/spinoff</li> <li>Merger</li> <li>New listing</li> <li>Preferential offer</li> <li>Purchase offer</li> <li>Security reclassification</li> <li>Security Swap</li> </ul>	<ul> <li>Financial year change</li> <li>Incorporation change</li> <li>International code change</li> <li>Issuer name change</li> <li>Local code change</li> <li>Lot change</li> <li>Security description</li> <li>SEDOL™* change</li> </ul>	<ul> <li>Announcement</li> <li>Arrangement</li> <li>Call</li> <li>Company meeting</li> <li>Lawsuit/Class action</li> <li>Listing status change</li> </ul>	

Takeover



### Capital change Events.

- Assimilation
- Bankruptcy
- Bonus/capitalization
- Bonus rights
- Buyback/repurchase offer
- Capital reduction
- Consolidation/reverse stock split
- Conversion terms
- Conversion terms change
- Currency domination
- Distribution/distribution in specie
- Divestment
- Dividend
- Dividend reinvestment plan
- Franking
- Entitlement/open offer
- Liquidation
- Par value redemption terms
- Return of capital
- Rights
- Subdivision/stock spilt

New: In addition to the 4 daily feeds, an extra email notification has been introduced for WCA. This notification includes corporate actions announced or updated on the day, with an effective date on the following working day.

#### \*Registered Trademark of London Stock Exchange

#### **Different Types of Corporate Action Feeds**

All corporate action feeds contain the same corporate action announcements, differing only in the inclusion of specific identifiers.

#### E2020 WCA feed

Equity - Global End of Day e2020 Feed

E2020\_LST\_EVT -- Fully customizable events specific Equity Corporate Actions with limited Reference Data.

E2020\_LST\_REF -- Fully customizable extended Global Reference Data which includes ISIN, Sedol, FIGI Codes and other Reference fields.

E2020\_NTS – Notes files which provide the actual announcement details. E2020\_LUP -- Lookups and Possible Values files.

#### US Style E2020 Feed

In the United States, companies typically announce information regarding splits and spin-offs. In other parts of the world, these events are referred to as subdivisions or consolidations. To ensure that EDI's feed aligns with the naming conventions used by US exchanges, EDI has developed a new US-style E2020 feed.

EDI have added 3 additional events named FSPLT (Forward Split), RSPLT (Reverse Splits) and Spoff (Spin Off). The following event types from WCA are taken into consideration while creating this event. Bonus, Stock Dividend, Subdivision, consolidation and Demerger events.

Clients taking this feed will see the event type as FSPLT or RSPLT or Spoff instead of underlying WCA event codes. The ratios are also adjusted so the clients will see the ratio as announced by the company.

# Worldwide Equity Corporate Actions Alert Files

EDI recognizes the challenges faced by the financial services community and provides alert files for upcoming effective and ex-dates, tailored to specific client requirements.

#### **Key Features:**

- Customizable Requests Clients can receive ex-dates, record dates, pay dates, and effective dates.
- Date Range Alerts can be taken up to 30 days before the required dates. They can also be delivered up to 30 days before the required dates.
- Reminders Multiple reminders can be sent leading up to the effective date.



# Worldwide Shares Outstanding

#### Efficiently calculate share stakes, shares outstanding, regulatory reporting levels & capitalization figures

#### Official shares outstanding

Provides official figures sourced directly from local exchanges or company sources, as soon as they are published.

The frequency of the official updates varies from market to market and can range from daily to annually.

#### **Adjusted Shares Outstanding**

When corporate actions occur before the release of official updates, the number of shares outstanding data can be impacted drastically. Use the adjusted shares Outstanding data set to provide you with the figures for events, including:

- Bonus
- Bonus rights
- Buyback
- Capital Reduction
- Consolidation
- Conversion

- Demerger
- Divestment
- Entitlement
- Redemption
- Rights
- Sub-division

Then receive reverted figures once the official figures have been released by the exchange or company.

#### Easily identify each security

Take advantage of data content, including:

#### Official Shares Outstanding

- Country of incorporation
- Country of registration
- Effective date
- Exchange name (source)
- ISIN, US code, local code
- Issuer name
- Listing date and status
- MIC Code
- Old and new shares outstanding figures
- Par value, amount, and currency

#### Adjusted Shares Outstanding

- Effective date
- Event type
- ISIN
- Issuer Name
- Listing country
- Listing exchange
- Old & new ratios
- Old & new, shares outstanding figures
- Security description
- Trading currency



# **Derivatives Data**

This offering focuses on exchange-traded futures and options, with underlying assets including equities, equity indices, interest rates, currencies, commodities, and other index products.

# **China Futures Guide**

#### High-Quality Intraday Transaction Futures Data from ChinaTickData

ChinaTickData offers comprehensive datasets featuring high-quality intraday transaction data for all securities listed on the Chinese Futures Exchanges. Our tick data is specifically designed to support quantitative trading, backtesting, machine learning, and other advanced applications.

Note: For Chinese futures, tick data is captured as two snapshots per second.

#### **Snapshot Prices**

All trades occurring between snapshots contribute to the changes in volume, reflected in both RMB amounts and contracts traded. Even if there are no changes from the most recent snapshot, a new snapshot will still be recorded, with the only update being the timestamp.

#### **Timestamps for China Futures**

All timestamps are provided in China Standard Time (CST).

Important: Excel automatically attempts to convert millisecond timestamps into its time format, which can lead to errors. Please ensure you convert the millisecond timestamps to text when importing.

# **Corporate Actions on Equity Derivatives (DerivActions)**

### Efficiently track corporate actions affecting futures and option contracts.

DerivActions provides detailed Exchange Adjustment Notices information in a standardized, machine-readable format with a link to the original Exchange Notice, where available.

DerivActions generates 2 feeds, triggered by corporate actions on the underlying security:

- Derivative Issuers List of all issuers with instruments linked to the affected underlying assets.
- Derivative Series & Trading Lines List of all the derivatives instruments linked to impacted equity.

DerivActions is directly linked to EDI's Worldwide Corporate Actions service and therefore covers all corporate action event types on a worldwide basis. Clients can subscribe to the full universe or customize the feed at an exchange level, root codes or specific underlying trading lines.

For example, clients can choose to receive details for OPRA or any other relevant exchange on the following event types only:

- Bonus
- Buy Back

Delisting

Consolidation

- Dividend
- Merger
  - Name Change
  - Rights

- Spin-Off/Demerger
- Subdivision
- Take Over
- Tender Offer



# **Corporate Actions U.S. Options**

Symbol Master processes and validates corporate actions received through direct exchange notice and OCC announcements.

#### CorpAct

The Symbol Master corporate actions (CorpAct) family of files track changes to the option and strike level details that impact Position and Risk Management due to a corporate action event's. This would include any adjustments that affect either the option symbol or the strike prices of an option.

Symbol Master provides standard and custom-tailored delivery of Corporate Actions content available through industry standard means. We currently support multiple versions of the Corp Act files based on the influence and data models of large data vendors within the Market Data industry.

#### **Corporate Actions (Corp Act) Pending**

The Corp Act Pending file tracks all confirmed but not yet effective corporate actions that involve changes to the option and strike level details. The pending corporate actions have been confirmed by either direct exchange or OCC memos.

#### Symbol Change Op

The Symbol Change Op file logs changes to an option symbol most commonly due to a corporate action.

#### Symbol Change Eq

The Symbol Change Eq file log changes to an options underlying symbol most commonly due to a corporate action.

# **Derivative Reference Data**

#### Undertake auick and accurate reference checks.

Get up-to-date information on exchange-traded futures and options where the underlying asset is either equity or index.

Use the derivative reference data file to efficiently identify and specific derivative contracts in our extensive database. The file currently covers more than 30 fields including:

٠	Contract Size	٠	Expiry Date	٠	Root Code	•	Ticker
•	Exercise Price	•	ISIN	٠	Security Description		

- - Strike Price ٠

MIC Code **Exercise Style** ٠

### Easily determine the underlying asset on which the derivatives price is based

The Derivative Reference Data indicates the underlying security attached to the contract.

<ul> <li>Security Description</li> </ul>	•	ISIN /SEDOL <sup>TM*</sup> /Ticker	•	Primary Exchange
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\*Registered Trademark of London Stock Exchange

### **Derivatives End-of-Day Pricing**

#### Obtain fast access to accurate closing pricing data

Data elements include High, Low, open, Close and Open interest. Choose to receive derivative end-of-day pricing data by exchange, portfolio or on a global basis.



# **Derivatives Trading Hours**

The Derivative Exchanges Trading Hours (DTH) service provides timely and accurate information on trading dates, holidays, settlement dates, delivery dates, trading hours, and other important times. The types of futures and options contracts covered in this product are:

- Agricultural Commodity
- Currencies
- Energy Products
- Equities

- Equity Index
- Interest Rates
- Metals
- Other Commodities and Indices

#### **Specific Datasets:**

Additional Trading Day, Settlement Time, Settlement details (cycle, method), Contract month updates (last Trade date, first trade date, the notice date, settlement date, delivery date etc....)

We also include non-trading days based on products with physical settlement and deliveries.

#### Exchange Coverage

• Exchanges & Trading Venues - 38 countries, 51 fields, 82 exchanges & trading venues covered.

# Flexible Exchange Options (FLEX)

# Created in 1993 by the CBOE originally for OTC Index options. FLEX options are Customized Options Contract Packages primarily used as portfolio hedging tools.

The base service is an end-of-day offering that shows the package composition of flex symbols available on the previous trading day. As with the Series Master Core data set and Supplemental data set there are multiple files that make up the FLEX offering.

#### FLEX Corporate Actions (FLEXCorpAct)

The FLEXCorpAct files serve as an alert that a corporate action is affecting the underlying option symbol. Our process utilizes our standard options corporate action content to anticipate potential changes to any related FLEX options.

#### FLEX Ext (New Ext4 September 2023)

The FLEX files are end of day files that show what flex symbols were available on that day's trading. There are multiple versions of the FlexExt files with the latest version (FlexExt4) containing listing exchange participant codes that enable users to understand which exchange listed the particular FLEX option.

#### FLEX Intraday (New September 2023)

The FLEX Intraday files supplement the nightly FLEX series files (FLEXExt) with intraday FLEX strike additions. They are created every hour from 9am to 4pm Eastern and include the participate exchange that listed each new FLEX strike.

#### **FLEX Open Interest**

The FLEX Open Interest files are created in the evening and show open interest in all FLEX options.



# **Futures and Options Contract Specification Database (FOCS)**

This product is under development and will provide detailed contract specifications on Exchange Information, Regulatory Groupings, Product Symbology, Product Type Features, Product Trading Requirements, Product Settlement and Delivery Requirements.

Over 120 exchanges in 43 countries will be covered with thousands of contracts in the following categories:

- Agricultural Commodity
- Currencies
- Energy Products
- Equities

- Equity Index
- Interest Rates
- Metals
- Other Commodities and Indices

EDI provides a daily file by market, as well as a daily notification of upcoming changes as published by the exchange. The notification file contains the MIC, the effective date, and the text of the notification. Any required changes will be applied to the specifications on the effective date ensuring you always have access to up-to-date specifications.

### **Options Analytics Service**

The Option Analytics Service uses daily updates and historical data to provide end-of-day analytics and reference data for the U.S. and international exchange-listed options on equities, exchange-traded funds (ETFs), equity indexes and futures.

This service can run test simulation of trading strategies, generate risk and regulatory reports on portfolios of options positions. Accounting firms can also use this service to their advantage, to help to calculate the amount of dividend equivalent payment and delta test for the IRS Section 871(m).

#### Coverage

- Over 10 million option and futures contracts and 10,000 issuers
- Pricing for the U.S and international exchange-listed equity, ETFs, index and futures options

#### **End-of-Day Pricing**

- End-of-Day composite pricing includes open, high, low, close, volume and open interest. NBBO bid/ask quotes are snapped at the close of the market.
- Pricing for equities, ETFs, indexes, and futures with exchange-listed options. End-of-Day composite pricing
  includes open, high, low, close and volume. Composite bid/ask quotes are snapped at the close of the
  market.

Description
"C" for call "P" put
Contract size
Listed Currency (e.g. USD)
Option delta
Pricing date
e.g. XCBOA1OC2017012027.5
e.g. A17AKC027500
ICE future U.S.
"A" for American and "E" for European
Contract expiration date
Underlying Issuer Name
Options mark price
Contract exercise price
ISIN of the underlying security
Underlying Close Price
Equity, Index, ETF, Futures
e.g. AAPL (stock), SPX (index), ZG (futures), SPY (ETF)



# Short Interest and Volume Report

Exchange Data International provides short interest data for several global markets. Short interest is a marketsentiment indicator that tells whether investors think a stock's price is likely to fall. It can also be compared over time to examine changes in investor sentiment. Short interest regulation and reporting requirements vary by country.

#### Countries with Short Interest Data by Position Holder

Austria, Belgium, Denmark, France, Germany, Greece, Ireland, Italy, Japan, Netherlands, Poland, Portugal, Spain, Sweden.

Data for these countries is reported to local regulators in compliance with ESMA short-selling regulations and began for most of these markets on 1 November 2012. The exceptions to this are Spain, which has data going back to 10 June 2010 and Greece where the history begins 30 May 2013.

#### Countries with Short Interest Data by Traded Volume/Position

Australia, Brazil, Canada, China, Hong Kong, Korea, Malaysia, Mexico, New Zealand, Norway, Singapore, Taiwan, Thailand, Turkey, United States Finra Short Sales Report, United States Finra OTC.

Market values are NASDAQ (for NO TRF), ADF, ORF, NYSE (for NYX TRF), (for NYX TRF)

#### Countries Which Permit Short Selling but Have no Activity.

The following countries permit short selling but there is currently no activity. EDI monitors these markets and will provide updates if/ when there is activity: Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, India, Latvia, Lithuania, Luxembourg, Philippines, Romania, Saudi Arabia, Slovakia.

#### Restrictions

EDI data will include notifications of restrictions to the short-selling regulations as provided by the market regulator and/or exchange. A section called EU restrictions will be added - For EU countries, additional restrictions may apply, and EDI will include a list of those shares as published on the ESMA registers.

# **Threshold Securities**

Access daily threshold securities listings to enable brokers to comply with SHO regulations governing short-selling activities. EDI aggregates daily threshold securities listings from:

**OTC Markets** 

NYSE Arca

NASDAQ Stock Market

New York Stock Exchange

NYSE MKT (NYSE American)

EDI identifies each listed security by cross-referencing the consolidated threshold securities listings with the securities database.

#### Worldwide Greeks

Worldwide Greeks is a Global Greeks and Implied Volatility analytics solution, developed using proprietary code and a file-based approach by SMI. It calculates Greeks using implied volatility without assumptions about the volatility surface. Each strike is evaluated independently, with no smoothing or theoretical model-based adjustments applied.

The offering includes transparency features such as a "Reason" column that explains when and why a calculation fails. This approach ensures data clarity and helps identify liquidity and pricing inefficiencies in equity and equity index options. Coverage includes 21 countries including the US. It also covers the G7 and emerging markets. Additional markets may be considered following a review with SMI.



# **Economic Data**

# **Economic Calendar**

EDI's economic calendar provides structured access to key global economic indicators, helping users monitor critical data releases that influence markets, policy decisions, and financial planning.

Built for traders, analysts, economists, and institutional users, the calendar delivers timely updates and historical context for data that matters.

#### What the Economic Calendar tracks

#### The tool includes scheduled releases for:

- Gross domestic product (GDP)
- Inflation and price indexes
- Employment and jobless claims
- Trade balances and current account figures
- Interest rate announcements
- Business and consumer sentiment surveys

Each event is organized by country and category, making it easier to assess market relevance and regional economic trends. Events display prior values, actual results, and future release dates, all presented in a clear, sortable layout.

#### Features

- Updated regularly throughout the day to reflect on the latest published economic events
- Searchable by country, date range, and data type
- Export options in CSV and TXT for offline analysis
- Compact and filterable view optimized for both desktop and mobile devices

#### Use Cases

The economic calendar is used by professionals for:

- Preparing for high-impact market events
- Aligning trading strategies with data expectations
- Tracking economic cycles across regions
- Supporting macroeconomic analysis and forecasting

# **Geopolitical Risk Forecasting (ICOG)**

The International Country Risk Guide (ICRG) is the world's most predictive geopolitical quant driven risk data and forecasting series. ICRG covers more than 141 developed, emerging, frontier markets and offshore banking centers. The geopolitical risk series resorts to weighted metrics to evaluate, score and rank countries, according to political, economic and financial risks. The composite score is derived from benchmarking against ICRG's 32 risk types for each country.

The ICRG methodology integrates political and financial risk variables, such as real GDP growth, inflation, fiscal account balances, external debt, liquidity sufficiency, and currency stability.

The IRCG group covers over 141 developed imaging and frontier countries worldwide dating back 1984 to 2021.

**Delivery options** Online, Print, Email Delivery format CSV, XLS, PDF, URL, DOCX



# Global Economic Indicators (GEI)

Exchange Data International (EDI) Global Economic Indicators (GEI) provide a comprehensive and reliable source of macroeconomic data, tailored to meet the needs of financial institutions, researchers, and service providers on both the buy and sell sides.

With coverage spanning over 280 countries and regions, EDI delivers high-quality datasets sourced exclusively from trusted official institutions such as central banks, statistical offices, finance ministries, stock exchanges, industry associations, and international organizations, like the IMF and World Bank collections.

To complement the macro-economic indicators, also see Interest Rates and Commodity Prices in our product overview.

#### Key Features

- Extensive Coverage: Over 230 indicators across 17,025 series and units, covering nearly every country and region worldwide.
- Historical Depth: Includes historical data for select indicators dating back to 1960, enabling long-term trend analysis
- **Complementary Datasets**: Includes Interest Rates and Commodity Prices for enhanced macroeconomic analysis.
- **Daily Updates**: Data is refreshed daily, five times a day (Monday-Friday) to ensure timely availability.

### **USA Economic Indicators Coverage**

EDI has a specific USA economic indicator dataset that provides a focused collection of economic indicators tailored specifically for users analyzing the U.S. economy. This dataset is sourced from trusted U.S. institutions such as the Bureau of Labor Statistics, Bureau of Economic Analysis, St. Louis Fed, Energy Information Administration, Census Bureau, Federal Reserve Bank of St. Louis (FRED), Energy Information Administration, Census Bureau, New York Fed and more.

#### Key Features:

• **Comprehensive Coverage**: Includes a wide range of macroeconomic indicators essential for understanding U.S. economic conditions.

Topics Covered:

- Money, Banking & Finance: Interest Rates, Monetary Data, Financial Indicators, Banking & Business Lending (13,000+ series).
- **Population, Employment & Labor Markets**: Employment, Education, Income, Labor Productivity, Wages & Tax.
- National Accounts: GDP and Income, Savings & Investments, Industry Performance.
- **Prices**: Consumer Prices, House Prices, Producer Prices, Employment Cost Index, Commodities and Trade Indexes.
- Production & Business Activity: Business Surveys & Cycles, Housing Market Trends, Industrial Production Metrics, Manufacturing Insights, Retail Activity, Services Sector Data, Technology Trends, Transportation Statistics.
- International Data: Comparative data for selected global economies alongside U.S.-specific insights.
- Data Updates: Data is updated daily from Monday to Friday, ensuring users have access to the latest economic information.



# U.S. and Global Economic Data Commentary

Econoday provides reliable U.S. and global economic data support financial professionals, investors, and institutions in making informed decisions. Econoday currently covers 17 major countries: Australia, Canada, China, Eurozone, France, Germany, Hong Kong, India, Italy, Japan, New Zealand, Singapore, South Korea, Switzerland, Taiwan, United Kingdom, and the United States.

#### U.S. Economic Data

The U.S. economic data service offers timely and comprehensive coverage of critical market events, including:

- Macroeconomic Indicators GDP, inflation, employment, retail sales, consumer sentiment, and more.
- U.S. Treasury Announcements Auctions, settlements, and yield updates.
- Policy & Market Insights Speeches by Federal Reserve officials, providing context on economic outlooks.
- Daily Research & Market Analysis Including Market Focus and Market Reflections to support trading and investment strategies.

The dataset includes figures from prior announcements, any revisions made to previous releases, market consensus, and the actual data reported upon release.

#### **Global Economic Data**

Global economic data offers broad coverage of key financial markets across multiple regions. The countries covered as follows: Australia, Canada, China, the Eurozone, France, Germany, Hong Kong, India, Italy, Japan, New Zealand, Singapore, South Korea, Switzerland, Taiwan, the United Kingdom, and the United States.

#### Key Event Coverage

- Central Bank Announcements Meeting minutes, and guarterly reports from major central banks.
- Event Monitoring Includes weekend coverage for major economic developments.
- Economic Research Includes daily US market focus and reflections.

The dataset includes prior announcement figures, and any revisions made, market consensus expectations, and the actual data as officially reported. Event descriptions include detailed explanations to explain the significance of each economic indicator and its relationship with market movements.

The calendar options include daily, weekly, or monthly displays with user-adjustable time zones.

#### Premium Economic Data

For clients requiring deeper market insights, expert analysis, and interactive data visualizations, Premium Economic Data Services include:

#### U.S. Premium Economic Data

Includes all U.S. Basic Data plus:

- Event Highlights Market-driven analysis from experienced economists.
- Consensus Outlook Weekly summaries highlighting potential market impacts.
- Snapshot and Interactive Charts Graphical representations of economic trends.
- News Alerts and Special Reports Real-time updates on unplanned market-making events.

#### Global Premium Economic Data

Includes all Global Basic Data plus:

- Expert Event Highlights Unbiased, jargon-free, and market-focused analysis of key economic developments.
- Historical Data Visualizations Interactive charts displaying actual and consensus data.
- Special Reports and Market Alerts Coverage of significant events, for example, Brexit, U.S. government shutdowns, and global financial crises.



### Customized Data Feeds and Integration

- Access Over 300 Economic Indicators Select the data that aligns with your business needs.
- Seamless Integration Custom data feeds designed for platforms, and financial websites.
- Multi-Language Support Translation services are available upon request.



# **Fixed Income Data**

# **Document Retrieval Service**

EDI provides access to an extensive library of fixed income securities offering documents through its web-based application, WFI Documenter. This tool seamlessly complements the Worldwide Fixed Income proprietary feed and browser products, enabling users to efficiently retrieve essential documentation.

Documents are available for download in their original format, including PDF, Microsoft Word, and Excel. The documents include:

- Offering circulars
- Prospectuses •
- Terms sheets •
- Pricing supplements •

Choose from such fields, including ISIN, US code, SEDOL™\* or Symbol, as well as via Issuer Name or use the portfolio checker feature to locate the required documents. If a document is unavailable, subscribers can place an order for it to be traced.

\*Registered Trademark of London Stock Exchange

# Fixed Income Derived Data (bond<sup> $\Sigma$ </sup>)

The Fixed Income Derived Data service combines worldwide fixed income and bond pricing data with algorithms from our partner, who specializes in cloud based financial applications.

The service currently covers 150,000 exchange-traded debt securities including government and corporate, fixedrate, floating, and convertible insurance, providing clients with an insightful report on the global fixed income market.

#### Value and efficiently manage portfolios.

The files comprise of an initial set of 11 fixed income derived data fields along with 16 fields from the last trade file and are delivered the next day at 8 am GMT.

- Accrued Interest
- Ask •
- Ask Size •
- Bid

•

- **Bid Size**
- **Closing Price** •
- Convexity •
- **Effective Duration** •
- Exchange Code

- High
- Kev-Rate Duration •
- Last Trade Date •
- Low

Mid

Open

- Macaulay Duration .
- Market Close Date •

**Modified Duration** 

- Price Currency
- Settlement Date
- **Traded Volume**
- Volume Flag
- Yield .
- Yield to Call •
- Yield to Maturity
- Yield to Put •
- Yield to Worst

Files can easily be customized and include another 25 identifiers and reference data fields, key for the calculations:

• • •	Bond Bond type Call price Call/Put flag Call/Put type Callable from/to date Country of incorporation	<ul> <li>Currency</li> <li>FRN index benchmark</li> <li>Frequency</li> <li>Interest payment</li> <li>Interest rate</li> <li>Interest type</li> <li>ISIN</li> </ul>	<ul> <li>Issue date</li> <li>Issue price</li> <li>Issuer name</li> <li>Local code</li> <li>Mark-up</li> <li>Maturity date</li> <li>Maturity price as per cent</li> </ul>	Nominal value Outstanding amount Security description Security ID US Code

Use bond $\Sigma$  to get the necessary data required for efficiency control, the risk associated with fixed income portfolios, project security or portfolio returns, as well as complying with the regulatory requirements.

- •



# **Municipal Bond Pricing**

The service provides a daily end of the pricing for either select bonds or the entire database of 1.25 million US Municipal Bonds. Along with the daily data, 8 years of historical data is also provided.

Data elements include:

- Bond type
- Callable/puttable flag
- Issuer code
- Maturity date
  Original amount
- coupon details First Coupon date
- Price

Issue date

In addition to the closing prices, it offers analytics data for each of the 1.25 million Municipal Bonds. The analytics file can either be included with the pricing feed or delivered separately.

Option adjusted spread

It includes data items such as:

- Convexity
- Effective convexity
- Effective duration
- Modified duration
- Yield to maturityYield to Worst
- The file is delivered via SFTP.

# Sovereign Debt Coverage & Database

Comprehensive coverage of sovereign debt issuance is available, offering a unified platform for tracking government bond auctions, treasury bill sales, and supra-national debt offerings. The calendar covers results of all U.S Treasury since 2001.

#### Comprehensive Sovereign Debt Monitoring

Sovereign debt coverage is built on a robust foundation of historical and real-time data, initially covering the sovereign debt issuance of 12 national governments and 3 supra-national issuers. The covered entities include:

- Austria, Belgium, Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Portugal, Slovenia, Spain, and the United Kingdom.
- European Financial Stability Facility, European Stability Mechanism, and the European Union.
- With annual sovereign debt issuance from this group averaging EUR 1.7 trillion, distributed across 300 bond auctions and 400 T-bill auctions.

#### Real-Time Sovereign Debt Auction Coverage

The addition of sovereign debt auctions from these 12 countries and 3 supra-national issuers allows subscribers to access a unified platform for monitoring sovereign debt issuance. Users can prepare, analyze, and compare data in real-time without time-specific data gaps. The live calendar coverage follows each debt offering through all auction stages, including:

- Auction results
- Formal announcement.
- Initial indicative calendar entry
- Post-auction bidding events
- Settlement

# Historical Auction Database and Analytics

The searchable sovereign debt database enables users to track and analyze thousands of auctions over the past 5+ years, offering unparalleled insights into issuance trends, limits, and patterns.

- Flexible Search and Categorization: Users can filter data by ISIN, time, maturity range, country, or security type.
- Real-time updates: Issuance information comes directly from issuers as soon as it is available.



- Performance Calculations: Track outstanding issuance and calculate market impact across various debt instruments.
- Live Auction Integration: Any live auction data is automatically added to the database, allowing retrospective analysis of the entire auction event sequence.

#### Market Insights: Issuance Volume Trends

Sovereign debt issuance varies significantly across countries, reflecting economic conditions and policy decisions.

France (High Issuance) conducts approximately 120 T-bill auctions totalling EUR 360 billion and 94 bond auctions amounting to EUR 190 billion annually.

Greece (Low Issuance), due to prior defaults, primarily issues T-bills rather than bonds, with a smaller issuance volume of EUR 35 billion annually.

This disparity highlights the importance of a comprehensive, comparative approach to sovereign debt monitoring.

# Worldwide Fixed Income Evaluated Pricing

The Fixed Income Pricing Service provides clients with a daily source of independent prices for valuations, portfolio analytics, best execution reporting, and risk management calculations.

#### **Data Description**

The fixed income pricing Service provides prices on a wide range of fixed income securities, including:

- ABS
- Agency MBS
- CLO
- CMBS

- Corporate Bonds
- Municipal Bonds
- Non-Agency CMO
- Syndicated Bank Loans

#### **Delivery Frequency**

Valuations are calculated daily at the close of major markets. For more liquid bonds, intraday valuations may be available. Valuations can be delivered on a same-day or next-day basis.

#### Methodology

EDI acquires observable pricing data from trade reporting utilities and parse indicative prices for emails sent from the sell-side to the buy-side. Prices are organized based on the issuer or tranche as appropriate per security type. This data is used in industry-standard models to construct issuer-level yield curves or to imply discount margins. More detailed methodology documents are available upon request.



# Worldwide Fixed Income (WFI)

# Keep track of new bond issues or changes in Terms and Conditions for both corporate and government issuances.

Access static data outlining key Terms and Conditions for all securities. Data is sourced globally from stock exchanges, central banks, ministries of finance, lead managers, paying, calculation, and transfer agents.

#### **Efficiently Manage Corporate Actions**

Track corporate action events for all corporate, government and government agency bonds with our Wordwide Fixed Income service.

Security Type	Volume	Security Type	Volume
Bankers' Acceptances	34	Loan Stock	390
Bonds	259,805	Medium-Term Notes	217,669
Capital Securities	754	Notes	163, 804
Cash Management Bills	393	Permanent Interest-Bearing Shares	19
Certificate of Deposit	105,146	Preferential Securities	5, 948
Certificates	10,595	Preferred Securities	979
Commercial Paper	34,640	Structured Products	88, 032
Covered Bonds	6,974	Strip Packages	459
Debentures	41,279	Treasury Bills	3, 645
Loan Notes	356	-	
Discount Notes	817		
Statistics as per April 2025			

Note: The volume of securities is derived using the country of primary exchange.

In addition to providing details of interest payments for both fixed and floating rate issues, the service covers all major corporate action events which can be divided into 3 main categories.

Static Data Events		Distribution Events	Securities Exchange Events
Agency Change	New Issue	Bond Outstanding Value	Conversion
Agency Details Change	Redemption	Call	
Bond Static Change	Redemption Change	Currency Redenomination	
Conversion Terms Change	Registered Office Change	Interest	
Incorporation Change	Security Agency Change	Interest Payment	
Interest Rate Change	SEDOL change	Listing Status Change	
Interest Frequency Change	Selling Restrictions Change	Currency Redenomination	
International Code Change	New Issue	Redenomination	
Issuer Name Change	Redemption	Bond Outstanding Value	
Local Code Change	Redemption Change	Call	
Maturity Change	Registered Office Change	Currency Redenomination	

\*Registered Trademark of London Stock Exchange

Users have the choice of receiving Corporate Actions data with or without the Terms and Conditions



# **Investment Funds**

# FundsCAB (United Kingdom)

The UK FundsCAB Service covers over 13,700 share class funds from 200 fund management companies providing comprehensive distributions and corporate actions data.

EDI's data team collects, analyses, and publishes the data from unit trusts and open-ended investment companies (OEIC) or their representatives. EDI also mines various websites to ensure we capture comprehensive corporate actions for the UK funds market. EDI actively monitors corporate actions as they happen, so you get the data you need faster.

#### Features of the UK FundsCAB Service

- Access corporate actions as soon as they are entered into the EDI's Corporate actions web-based system.
- Easily search and retrieve corporate actions based on the event, fund, or date ranges.
- Import portfolios and receive alerts when funds have an associated corporate action.
- See daily fund distributions as they are added to UK FundsCAB.
- Multiple sources mined to provide a more comprehensive Corporate Actions service.

#### **Investment Funds NAVs**

The Investment Funds Net Asset Value Service (NAVs) aims to deliver a bespoke database of NAVs to financial institutions. This covers investment fund providers worldwide. We aim to provide NAVs, whether daily/weekly/monthly/quarterly or as soon as they are released by the respective Fund Houses.

The Investment Fund industry is estimated to be worth around \$100 trillion worldwide. The share of financial assets owned through the medium of investment funds has been growing steadily and continues to expand particularly in emerging markets. Based on individual client requirements, EDI can set up feeds of NAVs of the selected universe of funds daily. Additional fields can be added based on client requirements depending on the public availability of the information.

Features of the Investment Funds NAVs Service

- Clients can flexibly choose the Investment Fund share classes NAVs they would like to receive.
- Apart from NAVs, additional fields can be made available subject to the availability of public information.
- Flexible delivery APIs, FTP, Email, etc.
- EDI's operations team continuously monitors NAV releases 24/5 and updates clients at a mutually agreed time.
- Weekly Management Information System (MIS)
- Comprehensive global coverage



# Worldwide Funds (Non-US Investment Funds)

The Investment Fund Industry is estimated to be worth around \$114 trillion worldwide. The share of financial assets owned through investment funds has been steady and continues to expand particularly in the emerging markets. EDI covers NAVs, reference data, corporate actions and dividends for the following countries:

Australia	Luxembourg
Austria	Malaysia
Belgium	Mexico
Canada	Netherlands
Denmark	Norway
Finland	Pakistan
France	Singapore
Germany	South Africa
Hong Kong	Spain
India	Sweden
Ireland	Switzerland
Italy	Taiwan
Japan	Thailand
Liechtenstein	United Kingdom

#### Reference Data

With a dedicated team collecting and processing data from 139,000 funds daily, and direct links with over 400 fund managers, supplemented by third party data, you can be assured of timely delivery of funds data.

#### **Corporate Actions**

Combine EDI's Reference Data with the Corporate Actions service, to benefit from comprehensive coverage of all open-ended funds. The product offers corporate actions events and now splits out various income streams for funds, namely Dividend, Interest and Property, where applicable.

#### Utilize EDI's Comprehensive Corporate Actions

The risk to a financial firm of missing a corporate action can run into a loss of millions of pounds and can lead to reputational damage. Use EDI's corporate action service for funds and get coverage of the corporate action for the funds you hold.

#### Use EDI's Standardized Feeds to Develop an Enterprise Solution

Our funds data service will provide you with crucial dividend and corporate actions information. Corporate actions are often complex and deadline-driven and of importance to front, middle and back offices in a firm. Use our standardized feeds to ensure your firm is processing corporate actions and cascading them down the organization into downstream risk models and trading strategies.

#### The Funds Data Service helps Calculating Accurate Tax Liability.

Investors and representative firms can calculate the correct tax liability payable by investors based on the breakout of various income streams in the EDI corporate actions feed.

# Offshore Reporting Funds (United Kingdom)

The Offshore Reporting Funds service provides clients with access to accurate, trusted and up-to-date data on complex investment vehicles. This is a data service that provides the required offshore fund tax reporting elements that are:

- Easy to use
- Provided in adaptable formats
- Provide through a validating process ensuring accurate

Using the Offshore Reporting Fund service will transform the time-consuming, labour-intensive task of identifying funds and determining tax liabilities into a simpler, streamlined process. It is a value addition to clients and reduce any risk of non-compliance. HMRC are clamping down on offshore fund tax avoidance and is a legal requirement to report all offshore transactions.



# UK Unit Trust Data

We cover Reference and Corporate Actions data including dividends for all UK Funds.

### **Reference Data**

#### Time Delivery of Unit Trust Data Direct from the source

With a dedicated team collecting and processing data from 20,000-unit trusts and OEICs daily, and direct links with over 300 fund managers, you can be assured of timely delivery of unit trust data.

#### Field Coverage - Reference Data

Fields	Description
CFI	CFI Code is a 6-character code for classifying financial instruments to identify the type and characteristics of each financial instrument per international standards.
Country of Incorporation	ISO country of incorporation of the company
Country of Register Currency	ISO country where the fund is registered ISO currency of the fund
Exchange Code	The identifier for the exchange
FIGI Exchange Ticker	Composite Financial Instrument Global Identifier enables users to link multiple FIGIs at the venue level within the same country or market to obtain an aggregated view for an instrument within that country
FIGI Global ID	Financial Instrument Global Identifier (FIGI) -An identifier that is assigned to instruments of all asset classes and is unique to an individual instrument. Once Issued, the FIGI assigned to an instrument will not change. Financial Instrument Global Identifier
ISIN	ISIN code
Issuer ID	Unique ID for the Issuer linking all funds for the issuer
Issuer Name	Name of the issuer of the Fund
Security Description	Summary description of the fund including share class, type of distribution, the currency of the fund and whether the fund hedged.
Security Type	The Fund type e.g (Mutual Funds)

#### **Corporate Actions**

Our unit Trust data service will provide you with crucial dividend information on Unit Trust/OEICs. The feed contains all relevant corporate actions data including:

- Group 1 and Group 2 distributions
- Equalization rates required for the calculation of dividend income

Furthermore, the unit trust data service includes:

- Important tax treatment data
- Payment frequency details
- Pay date, ex and record date
- Unit type



# **US Mutual Funds**

EDI's US Mutual product offers the highest quality reference data, comprehensive, corporate actions and dividend data plus a daily pricing feed for US mutual funds.

#### Reference Data

Access dynamical, updated, maintained and detailed information on over 28,000 Mutual Funds, 18,000 Unit Investment Trusts (UIT) and 130+ Interval funds.

#### Facilitate SFTP

Reference data is used across the front, middle and back offices. Utilize our reference data to ensure straightthrough processing, from front to back office, to drive settlement and reconciliation systems.

#### Fund Comparisons

Compare funds with similar characteristics using security level reference data and drill down using the CFI code to further focus your search to the funds you are interested in.

#### Easily select securities reference data that matters to you

Use a powerful search tool to search and select data from over 20+ field, including:

- US Local Code
- ISIN
- CFI code
- Tickers
- Issuer name

Easily cross check data with other providers using Financial Instrument Global Identifiers

- Financial Instrument Global Identifier (FIGI)
- Financial Instrument Global Identifier Composite (FIGI composite)
- Financial Composite Ticker (Composite Level) (Tickers + Exchange Codes)
- Financial Exchange (Exchange Level) (Ticker + Exchange Code)

Fields	Description
CFI	CFI Code is a 6-character code for classifying financial instruments to identify the type and characteristics of each financial instrument per international standards.
Country of Incorporation	ISO Country of Incorporation of the company
Country of Register	The country where the fund is registered
Currency	The currency of the fund
Exchange Code	The identifier for the exchange
FIGI Exchange Ticker	Composite Financial Instrument Global Identifier enables users to link multiple FIGIs at the trading venue level within the same country or market to obtain an aggregated view for an instrument within that country or market.
FIGI Global ID	Financial Instrument Global Identifier (FIGI) - An identifier that is assigned to instruments of all asset classes and is unique to an individual instrument. Once issued, the FIGI assigned to an instrument will not change.
Issuer ID	Unique ID for linking all funds for the issuer
Issuer Name	Name of the Issuer of the Fund
Listing Country	The country where the fund is listed
Listing Status	Indicates exchange listing status.
Local Code	The local security identification code provided by the exchange
MIC Code	ISO Market Identification Code

#### Field Coverage - Reference Data



Primary Exchange	Y/N Field
Security Description	Summary description of the fund including share class, type of distribution, the currency of the fund and whether the fund is hedged
Security ID	Unique ID for the Fund linking all listed funds
Security Type	The Fund type e.g. Mutual Funds
US Code	US security identification code

#### **Corporate Actions**

#### Reduce operational risk and ensure you have up-to-date information on US Mutual Funds.

Processing corporate actions is essential to your business. Misinterpreted or missed information can have a significant cost to the business (trades undertaken using wrong information, reputational damage etc.) that can result in substantial losses. At EDI we deliver business-critical information when you need it, direct from the source. So, you can be sure your firm does not miss key corporate action data. EDI has a wealth of experience with over 25 years of participation in the corporate actions industry.

#### Easily select corporate actions data that matters to you

•

•

The mutual corporate actions feed has several indicators, which allows early cross-referencing.

- Issuer ID
- FIGI Composite Code
- US Local code •
- FIGI Code FIGI Exchange Ticker
- ISIN Event ID •
- FIGI Composite Exchange Ticker • Security Code
- Issuer Name •
- CFI Code •

Field Coverage - Corporate Actions

- Announcement •
- Buy Back •
- CIK change (the US only) •
- **Class** Action
- Consolidation •
- Dividend .
- Financial Year End change •
- Fund Transfer •
- General Meeting •
- International Code change •
- Issuer Name change
- Location change

- Listing Status change •
- Lot change •
- NAICS change (the US only) •
- **Primary Exchange** •
- Par Value redenomination •
- Return of Capital •
- Registered Office change •
- Security Description change •
- Security Swap •
- Sub-division •
- Security Reclassification



#### **Pricing Data**

#### Get access to US Mutual Funds Asset Values (NAVs) data as soon as it becomes available.

Use EDI's end-of-day pricing data feeds to: Access closing prices data for US Mutual Funds and Unit Investment Trusts (UITs)

Easily identify US funds through static data elements taken from the Security Reference File.

#### Price Feed Coverage

Field	Description
CD	Exchange Code
Close	Price Field for NAVs
Currency	Currency of Fund
ISIN	ISIN Identifier of Fund
Issuer Name	The Issues of the Fund
MKT Close Date	Market Close Date
MIC	Market Identifier Code
Open	Open NAV
Price Date	Date of NAV
Price File Symbol	Ticker
Primary CD	Primary Exchange Code
Sec ID	Security ID
Sec Ty CD	Security Type Code (MF, UNT, etc)
Security Desc	Fund Name
US Code	US Code
Volume Flag	Volume Flag

### **Unit Investment Trusts**

A unit investment trust (UIT) is an investment company that offers a fixed portfolio, generally of stocks and bonds, as redeemable units to investors for a specific period of time. It is designed to provide capital appreciation and/or dividend income. We cover all unit investment trust issued in the United States.

#### Fields Available for UIT Reference

- Action Flag
- Action Time
- Deposit Data
- Distribution Date
- Distribution Frequency
- Exchange Code
- ISIN
- Issuer Name
- Local Code

- Maturity Date
- SEDOL
- Security Description
- Security Name
- Tax Class
- Trust Name
- UIT ID
- US code



#### **Fields Available for UIT Corporate Actions**

- Action Flag •
- Action Time •
- Announced Date
- Approximate Dividend Flag •
- Currency Code •
- Deposit Data •
- **Distribution Data**
- **Distribution Frequency** -
- **Ex-Dividend Date**
- - Exchange Code

- Gross Dividend
- ISIN
- Issuer Name
- Local Code
- Maturity Date
- Net Dividend
- Nil Dividend
- Payment ID •
- Pav Date
- **Record Date**

#### SEDOL •

- Security Description •
- Security Name
- Tax Class •
- To Be Announced Flag •
- Trust Name •
- US Code

**US Dividend Reclassification** 

The US Dividend Reclassification service can be utilized to create 1099s for your clients, as a secondary source to validate your primary provider or as a tool for your client support group to research customer inquiries.

The files contain a number of security reference data fields, facilitating EDI's content into your security master including, Issuer name, Country of register, Multiple security identifiers, CFI and CIK codes, Industry classifications (SIC, NAICS), Security type, Security Description, and Ticker symbol.

The files also contain the specific income classifications needed for accurate and timely income tax reporting for each dividend payable on security.

NRA Exempt Income Dividend – Amount per share, exempted from additional withholding taxes on dividend/interest income, applicable to foreign entities (individuals, partnerships, corporations, estates, and trusts) from sources within the U.S., such as mutual funds.

Web Portal – Our web product offering contains the same content set with multiple searching and downloading tools.

This includes Basic Search with multiple identifiers that allow users to search using multiple identifiers or partial names, as well as a Custom Search that provides options for date ranges and specific dates (such as announcement date, ex-date, and record date).

Users can view and download results, customize their data fields, and set up on-demand downloads to run intra-day or at the end of day based on either the entire full universe of data or their selected portfolio.



# **Municipal Bonds**

# **Municipal Bond Corporate Actions**

The following types of data are covered within the Financial and Historical Actions service highlighting a wide range of Corporate Action events related to actively traded, Municipal Securities in North America:

- Redemption (Full, Partial, Sinking)
- Defeasances (Full, Partial)
- Put options (Mandatory Repurchase, Partial Mandatory Repurchase, Mandatory Retained)
- Offers (Exchange, Purchase)
- Bankruptcies (Petition Filed, Ballot Solicitation, Reorganization Confirmed, Reorganization.

**Delivery options** Online Platform Delivery format CSV, XLS, PDF, URL, DOCX

# **Municipal Bonds End of Day Pricing**

The service provides daily end-of-day pricing for either select bonds or the entire database of 1.25 million US municipal bonds. Along with the daily data, SQX supplies 8 years of historical data.

The method reduces risk by providing more market driven evaluations than traditional methods (such as bootstrapping, interpolation and matrix pricing)

Developed for the middle-market, regional dealer community and clients are provided with:

- Of transparency into the methods and data sourced to produce the valuations
- Gives client and partners the ability to provide needed feedback during development phases.
- Is developed by experts specific to the market niche it serves.
- Is priced to fit the original firms' budgetary framework.

Delivery Options	Delivery Format
SFTP	XML

### **Municipal Bonds Information Service Data Feed Services**

- Bids wanted with the full bid stack for all bids wanted, regardless of participation.
- Offerings, most of which are executable on MBIS partner trading platforms.
- Intraday updates, every 15 minutes, to ensure the data is available when it is needed.
- A comparable securities product that identifies peer bonds with recent market data for the majority of municipal bonds, including liquid securities.
- A Municipal benchmark curve powered by executable market data updated hourly.
- Expertise in leveraging the data to support the front, middle, and back office.

### **Municipal Market Benchmark Service**

- Available intra-day on an hourly basis in (providing an early indication into other benchmark's direction for the day)
- Based upon a set of constituent bonds determined monthly, fully disclosed, and priced directly from the available market data.
- Results produced through an objective, fully automated, and transparent methodology, and monitored by a rigorous quality assurance process.
- Data fields include curve yields, Constituent bond pricing, and underlying market data. The basic service includes the Muni Benchmark Curve, Investment Grade Credit Curves, and Insured Spread Curves.
- Custom yield curves (State, Sector, etc.) Can be generated and provided upon request.



# **OTC** Data

# Credit Default Swap Data (CDS)

The CDS Data Service provides clients with a daily source of independent CDS spread curves for valuations, portfolio analytics and risk management calculations.

#### **Data Description**

The CDS data service supplies five and 10-year spreads for over 2000 reference entitles, together with a wide range of currency, restructuring clauses, and tier of depth combinations. Spreads expressed as the basis point cost of buying protection on the corresponding CDS. Full-time structure curves (with the spread covering 6 months through 30 years) are available at premium service level.

#### **Delivery Frequency**

CDS data is available daily, with delivery at approximately 4 pm. ET. and 10 years of history is available.

#### Methodology

EDI parse's CDS quotes from market communication, typically in the form of indicative quotes emailed from the sell - side to the buy-side. This data is cleaned for spurious points, such as outliers, or stale spreads. Curves displaying inversion are investigated manually to ensure accuracy. Cleaned data is then averaged into a composite.

# **Option Volatility Data**

The FX Option, Volatility Data Service provides clients with the daily source of independent FX volatility data for valuations, portfolio analytics, and risk management calculations.

#### Data Description

The FX Option Volatility Data Service supplies daily volatility services for FX options, including skew, across 30 global currencies and precious metals. Results are expressed as follows:

- For at-the-money (ATM) strikes: as percentage implied volatility
- For 10 and 25 Delta Risk Reversals & Butterflies: as offsets to the corresponding ATM volatility

#### **Delivery Frequency**

FX option volatility data is available on an intraday or end-of-day basis. End-of-day data is delivered at the close of the major global market or as a consolidated file at 4 pm ET. Up to 5 years of history is available.

#### Methodology

EDI receives market-observable codes for precious metals and FX options directly from the dealer desk. This data is then cleaned for spurious points, such as outliers or stale contributions.

### Swap Curve Data

The Swap Curve Data Service provides clients with the daily source of independent zero-coupon, swap implied yield curves for valuations, portfolio, analytics, and risk management calculations.

#### **Data Description**

The Swap Curve Data Service supplies daily yield curves for a view of a wide range of global currencies. Results are expressed as both as zero-coupon yield and associated discount factor.

#### Delivery Frequency

Yield curve data is available on an intraday or end-of-day basis. End-of-day data is delivered at the close of the major global markets or as consolidated file at 4 pm EST. Up to 5 years of history is available.



#### Methodology

EDI implies yield calls from readily observable market prices. We select the most liquid instrument available in the market for each maturity regime. OIS is the assumed approach if a liquid market exists for the referenced currency. The zero-coupon yields and discount factors are implied using an industry standard bootstrapping model.

# **Swaption Volatility Data**

The Swaption Volatility Data Service provides clients with the daily source of independent interest rate, volatility data of valuations, portfolio analytics, and risk management calculations.

#### **Data Description**

The swaption Volatility Data Service supplies daily normalized volatility cubes for interest rates swaptions including skew, across many popular global currencies. Volatilities are expressed in basis points and correspond to standardized cube nodes, including:

- At-the-Money (ATM) strikes, and out-of-the-money strikes specified as positive and negative offsets of the ATM forward rate in 25, 50, 100, 150 and 200 basis increments.
- Standard option tenors, typically from 1 month to 30 years

#### **Delivery Frequency**

Swaption volatility data is available on an intraday or end of day basis. End-of-day data is delivered at the close of major global markets or as a consolidated file at 4 pm EST. Up to 5 years of history available. Data is delivered in a flat file via SFTP.

#### Methodology

EDI receives market-observable quotes for swaptions directly from dealer desks. These volatilities are quoted using OIS discounting, where applicable, or as forward premiums. We use these quotes to calibrate the SABR model, the output of which is a normalized volatility cube.

The service provides normalized volatility to ensure consistent coverage, even in negative interest rate environments.

While normalized volatilities will calibrate for negative ATM rates, some negative offset strikes, particularly for short tenors, that produce negative forward rates, will not calibrate given limitations of the SABR model.



# **Pricing Data**

EDI has but not with several key financial companies and has been providing daily closing pricing data to meet the industries' need since 2007.

# **Adjustment Factors**

EDI has partnered with several key financial companies and has been providing daily closing pricing data to meet the industry's needs since 2007.

# **Adjustment Factors**

### Adjust your pricing history to take account of corporate actions and dividends#

#### **Adjustment Factors Data Feed**

One of the principles uses of adjustment factors is to back up EOD (end of day) per-share price data so that the price can be grafted with the effect of any events (Bonus, rights, consolidation, etc) "factored" into the earlier prices. once adjusted, meaning comparison can be made between a recent price and an earlier price, e.g. comparing a recent price of 15 against an earlier price of 20, it would appear that the security has lost 25% of its value, however, after adjusting the earlier prize to 241 split (factor= 0.5), that happened between the two prizes you can see the security has increased in value by 50%.

All per-share series, including prices, earnings per share, dividends per share, assets per share, cash flow per share, etc. need to be adjusted before meaningful conclusions can be drawn about growth rates, trends, etc.

The feed has all necessary fields so that you can identify the country, security, event and factor. The main benefit of this feed over competitor feeds is that it can be fully automated allowing the handling of messy cancellations and corporate action changes to happen seamlessly in the background.

#### Version Differences

A new two-adjustment factor feed is now available and includes three major enhancements.

- Inclusion of Bloomberg codes. FIGI codes have been added which allow clients to crosscheck datasets.
- The field that were sub-fields in the detail field of the previous version now have their fields. For example, DivType was in the Detail field (event description) as DIVPERIOD= This will allow for easier integration of the data.
- The reason codes are different, expanded to 3 characters enabling high-level groupings of reasons. For example, all dividend reasons begin with "01", with the 3<sup>rd</sup> character depending on whether it is cash, script of both. This allows greater granularity when deciding to apply or not.



## Worldwide End of Day Pricing Data

## Mark-to-market your positions and settle transactions on a timely basis

The end of the pricing service covers equities, bonds and indices listed on 170 markets worldwide. Obtain fast access to accurate closing pricing data

Data elements include:

- ISIN
- Issuer Name
- LastHigh

• MIC

- LowMarket Close Date
- Ask Size

Comment

Currency

• Bid

•

•

•

•

• Bid Size

Ask

- Close
- Mid
  - Open
    - Price Date Exchange

- Security Description
- Security ID
- Security Type
- Total Trades
- Traded Value
- Traded Volume
- •US Code
- Primary Exchange

**Commodity Prices** 

Apart from Annual Commodity prices, EDI also provides pricing data for most of the key global commodities. Historical data is available from 1959, depending on the source of the commodity. Most of the commodities contain daily values.

Category	Subcategory	Commodity Name	Frequency
Metals	Alkali Metals	Lithium	D
Metals	Alkaline Earth Metals	Magnesium	D
Metals	Transition Metals	Titanium	D
∕letals	Transition Metals	Molybdenum	D
∕letals	Transition Metals	Manganese	D
/letals	Transition Metals	Iron Öre	D
∕letals	Transition Metals	Cobalt	D
∕letals	Transition Metals	Rhodium	D
/letals	Transition Metals	Palladium	D
/letals	Transition Metals	Platinum	D
/letals	Transition Metals	Copper	D
∕letals	Transition Metals	Silver	D
/letals	Transition Metals	Gold	D
/letals	Transition Metals	Zinc	D
/letals	Transition Metals	Gallium	D
/letals	Transition Metals	Indium	D
/letalloids	Post Transition Metals	Germanium	D
/letals	Transition Metals	Tin	D
/letals	Transition Metals	Lead	D
/letals	Transition Metals	Bismuth	D
/letalloids	Post Transition Metals	Tellurium	D
ood	Dairy	Milk	D
ood	Dairy	Cash-Settled Butter	D
ood	Dairy	Non-Fat Dry Milk	D
Food	Dairy	Whole Milk Powder	F
ood	Dairy	Skim Milk Powder	F
Energy	Crude Oil	Heating Oil	W
Energy	Refined Products	Gulf Coast Gasoline	W
Energy	Refined Products	RBOB Gasoline	W
Energy	Crude Oil	Propane	W
Chemical	Organic Chemicals	Purified Terephthalic Acid	D
Agriculture	Livestock	Lean Hogs	D
Agriculture	Livestock	Live Cattle	D
Agriculture	Livestock	Feeder Cattle	D



			_
Agriculture	Grain	Corn	D
Agriculture	Grain	Oats	D
Agriculture	Grain	Rough Rice	D
Agriculture	Oilseeds	Soybeans	D
Agriculture	Oilseeds	Rapeseed	D
Agriculture	Oilseeds	Soybean Meal	D
Agriculture	Oilseeds	No 2. Soybean	D
Agriculture	Oilseeds	Soybean Oil	D
Agriculture	Grain	Wheat	D
Agriculture	Frozen Orange Juice	Frozen Concentrated Orange Juice	D
Agriculture	Food	Azuki Bean	D
Food	Confectionery	Сосоа	D
Food	Confectionery	Сосоа	D
Agriculture	Plantation Crops	Robusta Coffee	D
Agriculture	Plantation Crops	Coffee	D
Agriculture	Lumber and Softs	Cotton	D
Agriculture	Confectionery	Sugar	D
Metals	Transition Metals	Aluminium	D
Metals	Transition Metals	Nickel	D
Energy	Crude Oil	WTI Crude Oil	D
Energy	Crude Oil	Brent Crude	D
Agriculture	Lumber	Random Length Lumber	D
Agriculture	Lumber	Softwood Pulp	D
Agriculture	Edible Vegetable Oil	Palm Oil	D
Animal Fiber	Textile Fiber	Wool	W
Alcohol	Flammable Liquid	Ethanol	D
Metals	Transition Metals	Copper	D
Metals	Transition Metals	Aluminium Alloy	D
Agriculture	Elastic Material	Rubber	D
Agriculture	Oilseeds	Soybean Meal	D
0		, ,	

## **Interest Rates**

To complement our economic datasets, EDI recently added the Interest Rate (iRate) dataset which is a must have for the financial sector. Interest rates influence borrowing costs and spending decisions of households and businesses. Rising or declining interest rates can adjust a company's strategy and outlook by changing the types of loans and amounts of money a company may potentially borrow, while also affecting things such as the valuation of securities currently held by the company, any future investment ventures and future cash flow forecasts.

Files available upon request.

## **Worldwide Equity Analytics**

Worldwide (equity) analytics is a newsfeed of the derived equity data, which provides clients with high-quality information to efficiently manage and value their portfolio.

The file comprises a customizable set of more than 60 equity derived data fields along with fields from our security reference file and closing prices. Data elements include:

Currency	1,5- & 10-years Benchmark return	12- & 60-months Alpha, Beta, R -squared, Sharpe
Exchange	Average Monthly Volume over 6 Months	RSI
ISIN	Low Case	1 &5 years Dividend Growth
Issuer Name	USD Rate	1,5 & 10 years Comparative Return
Last Traded Date	Benchmark Securities	90 Day Volatility
Local Code	High	1,5 &10 years Stock Return
MIC	Average Daily Traded Volume for 9 Months	Lowest Low over Last Year, Quarter, Month & Week
Security Description	Issuer Market Capitalization	Highest High Over Last Year, Quarter, Month & Week
Security Type	Shares in Issue	21,63,100 & 200 days Simple Moving Avarage
US code	Sector	Average Daily Volume over past Week, Month & Year
Value at risk over 1 year (99% & 95% Confidence)		



## Foreign Exchange Rates

Save time by integrating Foreign Exchange Rates into your in-house system.

The Foreign Exchange Rates provide you with accurate, up-to-date foreign Exchange rates data. The service covers 168 currencies including Euro legacy ones.

You can customize the file to only include your selected currencies, your preferred based rate USD, GBP, EUR or add extra fields like the reverse rate.

#### Automated delivery

Choose to either take an end-of-day file, two files a day at 6am and 6pm UTC or multiple files a day. Then get it delivered via API, FTP or email.

## **Historical Foreign Exchange Rates**

EDI provides exchange rate data for 168 currencies, including Euro Legacy ones.

Updated hourly, data is available via SFTP, API, snowflake, AWS or email. Clients can choose to either take an endof-day file or two files a day at 6 am and 6 pm UTC.

The file can be customized to only include the currencies of interest and additional fields like the reverse rate. We offer three base rates options: USD, GBP, EUR.

## **Official Foreign Exchange Rates**

The Official Foreign Exchange Rates service (OFER) provides daily updates on the central bank and other official bodies published FX rates, ensuring timely and accurate information. It measures the value of the domestic currency against another currency, highlighting their relative values.

OFER are crucial for businesses and individuals involved in international transactions and for working out tax obligations.

EDI takes pride in providing the OFER rate service, offering efficient and tailored solutions to meet individual customer needs. This service features over 3200 OFER rates, including Close, BID, ASK, and MID prices according to the source, alongside comprehensive historical data.

#### Why is OFER data important?

OFER are essential for global commerce. They ensure consistency and fairness in international trade by providing a standard for currency conversion. This consistency helps businesses accurately price goods and services, manage costs, and forecast financial performance.

#### OFER data is crucial for several reasons:

**Economic Stability:** It helps maintain economic stability by providing a benchmark for currency values, which is essential for international trade and investment.

Business Planning: Companies use this data to plan their international operations, manage currency risk, and set prices for goods and services in different markets.

**Government Policy:** Governments and central banks use exchange rate data to formulate monetary policies, manage inflation, and stabilize their economies.



Taxation and Compliance: Essential for calculating taxes, duties, and tariffs accurately.

**Investment Decisions:** Investors rely on accurate exchange rate data to make informed decisions about foreign investments, currency trading, and portfolio management.

**Travel and Remittances:** Individuals use exchange rate information for travel expenses, sending money abroad, and converting currencies for personal use.

Overall, accurate and timely exchange rate data is essential for the smooth functioning of the global economy.

Coverage: 90 countries, 15 fields, 3200 Official Foreign Exchange Rates.

#### **Country Coverage**

Country	Currency	Country	Currency	Country	Currency
Afghanistan	AFN	Guyana	GYD	Romania	RON
African States	XAF	Haiti	HTG	Russia	RUB
Albania	ALL	Hungary	HUF	Rwanda	RWF
Algeria	DZD	Iceland	ISK	Samoa	WST
Angola	AOA	India	INR	Sao Tome and Principe	STN
Australia	AUD	Indonesia	IDR	Saudi Arabia	SAR
Azerbaijan	AZN	Iran	IRR	Serbia	RSD
Bahamas	BSD	Israel	ILS	Seychelles	SCR
Bahrain	BHD	Jamaica	JMD	Singapore	SGD
Bangladesh	BDT	Japan	JPY	Solomon Islands	SBD
Belarus	BYN	Kazakhstan	KZT	South Africa	ZAR
Belize	BZD	Kenya	KES	Sri Lanka	LKR
Bosnia & Herzegovina	BAM	Libya	LYD	Suriname	SRD
Botswana	BWP	Kuwait	KWD	Switzerland	CHF
Bulgaria	BGN	Macedonia	MKD	Tajikistan	TJS
Cabo Verde	CVE	Malawi	MWK	Tanzania	TZS
Cambodia	KHR	Malaysia	MYR	Thailand	THB
Canada	CAD	Maldives	MVR	Tonga	TOP
Chile	CLP	Mexico	MXN	Trinidad and Tobago	TTD
Czech Republic	CZK	Moldova	MDL	Tunisia	TND
Democratic Republic of the Congo	CDF	Mongolia	MNT	Uganda	UGX
Denmark	DKK	Nepal	NPR	Ukraine	UAH
Egypt	EGP	Morocco	MAD	United Arab Emirates	AED
Eswatini	SZL	New Zealand	NZD	United Kingdom	GBP
Ethiopia	ETB	Nigeria	NGN	United States	USD
European Union	EUR	Norway	NOK	Uzbekistan	UZS
Fiji	FJD	Oman	OMR		
Gambia	GMD	Philippines	PHP		
Georgia	GEL	Poland	PLN		
Ghana	GHS	Qatar	QAR		



#### Field Coverage for Official Foreign Exchange Rates

Field Name	Fields Description
acttime	Last modified date and time of OFER record
actflag	Record status of OFER record I(nsert), U(pdate) or D(elete)
ref_id	Reference ID for each description
rate_id	Rate ID for each description
country_code	ISO 3166 Alpha-2 Code
country	Country Name where central bank Institution located
administrator_name	The name of the central bank who publish the value of the respective indicator.
currency	ISO 4217 Currency Alpha 3 Code
Code	A unique EDI internal code for maintaining reference rate to easy identification.
description	Currency pair of the Exchange Rate
effective_date	The date of the rate value presented in the source
Rate	Rate value of the respective indicator (currency pair) on the effective date.
rate_value_type	Price Value type (Close, MID, BID and ASK) of the rates.
data_published	The Data Published field represents the rate delivered by EDI either on the same day (T+0) of the effective date or delivered with T+1 or T+2.
comments	Free text used for notes purposes.

## **Reference Rates**

#### Service Overview

The Reference & Interest Rates service provides timely and accurate information about benchmark rates and other key rates on a daily basis.

A reference rate is an interest rate used to determine other interest rates in a financial instrument. Various types of transactions use different reference rate benchmarks. The most common reference rates are Fed Funds Rate, Interbank Offered Rates, the Prime rate, and the rate on benchmark U.S. Treasury securities.

EDI is proud to offer the most effective and efficient solutions tailored to meet individual customers' needs. The service comprises over 862 Reference & Interest Rates daily with historical data coverage.

#### Timely and accurate information about benchmark rates and other key rates on a daily basis.

The Reference Rates Service provides 762 Interbank and benchmark Reference Rates data for 53 currencies, including Euro Legacy, with historical data coverage going back to 2010. The service can be utilised to determine other interest rates and yield curves in a financial instrument.

The most common reference rates include the Fed Funds Rate, Interbank Offered Rates, the Prime Rate, and the rates on benchmark U.S. Treasury Securities, which are utilized in various types of transactions.

Gathered from a multitude of sources including banks, Stock Exchanges, and financial regulators, the Yield Curve Service provides a term structure of interest rates under various scenarios, including IBOR discounting, OIS discounting, and use of Risk-Free Rates ("RFR"). The service provides data including quoted bids and asks on global interest rate swaps and basis swaps, implied zero-coupon yields and discount factors, cap/floor volatilities, and swaption volatilities.

## Worldwide Yield Curve Service

Designed to support valuation, risk management, and trading decisions, the Yield Curve Service delivers precise, audit-ready inputs. It includes global, corporate, and municipal yield curves, all of which can be tailored to meet individual client requirements.

The Worldwide Yield Curves Service provides comprehensive data such as quoted bids and asks on global interest rate and basis swaps, implied zero-coupon yields and discount factors, cap/floor volatilities, and swaption volatilities. **Why choose the yield curve service?** 



#### Extensive global coverage

- Sovereign zero-coupon curves for more than 70 countries
- Corporate curves across seven credit buckets (AAA  $\rightarrow$  CCC)
- Hourly-updated municipal curves

#### Full transparency

Constituent lists, bid/ask quotes, and detailed calculation notes accompany every curve.

#### Delivery flexibility

Daily end-of-day files plus optional hourly snapshots keep models synchronised with live markets. Access zero-coupon curves from over 70 countries, covering maturities from one month to long-dated bonds. Coverage often includes key short-term maturities (1-, 3-, 6-month).

- Updated daily with intraday refreshes available
- Supports multiple discounting methodologies (IBOR, OIS, RFR)
- Includes bid/ask quotes, zero-coupon yields, and discount factors

#### Data Highlights

Curve Type	Maturities	Update Frequency	Key Extras
Sovereign	1-month to 50-year zero-coupon yields & discount factors	Daily (intraday optional)	Bid/ask quotes
Corporate	AAA, AA, A, BBB, BB, B, CCC curves	Daily	Constituents & weights
Municipal	Observable trade-driven curves	Hourly	Transparent methodology

#### **Corporate Yield Curves**

Make informed decisions with daily corporate yield curves across multiple credit ratings, from AAA, AA, A, BBB, BB, B, and CCC. The yield curves are transparent, and include a clear breakdown of their constituents, allowing users to understand how they were created, and which companies were included.

## **Municipal Yield Curves**

The municipal yield curves offer comprehensive data and timely updates, providing a clear alternative to opaque pricing models.

While most municipal curves rely on a black-box pricing algorithm, our municipal yield curves are delivered through data-driven methodologies and are updated on an hourly intraday basis, ensuring users receive the most up-to-date and reliable information available.



## **Global Yield Curves**

The global curves offer up-to-date information from around the world. This zero-coupon curve coverage includes the full yield curve, from one month to long bond yields. We provide information from 70 countries, frequently including 1-, 3- and 6-month money market maturities. By letting us gather information from 70 country-specific sources, you save hours of work.

#### Countries Included:

Country	ISO Code	Money Market Maturities (Months)	Bond Maturities
Australia	AUS	1, 3, 6	All Years 1-30
Austria	AUT		All Years 1-30
Belgium	BEL		All Years 1-30
Brazil	BRA		All Years 1-30
Bulgaria	BGR		All Years 1-30
Canada	CAN	1, 3, 6	All Years 1-30
Chile	CHL		All Years 1-30
China	CHN	3, 6	All Years 1-30
Colombia	COL		All Years 1-30
Costa Rica	CRI		All Years 1-30
Croatia	HRV		All Years 1-30
Czech R.	CZE		All Years 1-30
Denmark	DNK		All Years 1-30
Dominican R.	DOM		All Years 1-30
Egypt	EGY		All Years 1-30
Finland	FIN		All Years 1-30
France	FRA		All Years 1-30
Germany	DEU	1, 3, 6	All Years 1-30
Ghana	GHA		All Years 1-30
Great Britain	GBR	1, 3, 6	All Years 1-30
Greece	GRC		All Years 1-30
Hong Kong	HKG	1, 3, 6	All Years 1-30
Hungary	HUN		All Years 1-30
Iceland	ISL		All Years 1-30
India	IND	1, 3, 6	All Years 1-30
Indonesia	IDN		All Years 1-30
Ireland	IRL		All Years 1-30
Israel	ISR		All Years 1-30
Italy	ITA		All Years 1-30
Japan	JPN	1, 3, 6	All Years 1-30
Kazakhstan	KAZ		All Years 1-30
Kenya	KEN		All Years 1-30
Latvia	LVA		All Years 1-30
Lithuania	LTU		All Years 1-30
Luxembourg	LUX		All Years 1-30
Malaysia	MYS	1, 3, 6	All Years 1-30
Malta	MLT		All Years 1-30
Mexico	MEX		All Years 1-30
Morocco	MAR		All Years 1-30
Netherlands	NLD		All Years 1-30
New Zealand	NZL	1, 3, 6	All Years 1-30
Nigeria	NGA		All Years 1-30



Norword		1 2 6	All Maara 1.20
Norway	NOR	1, 3, 6	All Years 1-30
Pakistan	PAK		All Years 1-30
Peru	PER		All Years 1-30
Philippines	PHL		All Years 1-30
Poland	POL		All Years 1-30
Portugal	PRT		All Years 1-30
Qatar	QAT		All Years 1-30
Romania	ROU		All Years 1-30
Russia	RUS		All Years 1-30
Saudi Arabia	SAU		All Years 1-30
Serbia	SRB		All Years 1-30
Singapore	SGP	1, 3, 6	All Years 1-30
Slovakia	SVK		All Years 1-30
Slovenia	SVN		All Years 1-30
South Africa	ZAF	1, 3, 6	All Years 1-30
South Korea	KOR		All Years 1-30
Spain	ESP		All Years 1-30
Sri Lanka	LKA		All Years 1-30
Sweden	SWE	1, 3, 6	All Years 1-30
Switzerland	CHE	1, 3, 6	All Years 1-30
Taiwan	TWN		All Years 1-30
Thailand	THA	1, 3, 6	All Years 1-30
Turkey	TUR		All Years 1-30
Uganda	UGA		All Years 1-30
Ukraine	UKR		All Years 1-30
U.S.A.	USA	1, 3, 6	All Years 1-30
Uruguay	URY		All Years 1-30
Vietnam	VNM		All Years 1-30



## **Reference Data**

## **Foreign Ownership Limitations**

The Foreign Ownership Limitations (FOL) service informs investors whether a foreign firm or individual has exceeded the foreign stock ownership ceiling limits. The service covers 63 Exchanges in 53 countries and provides access to 42 data fields. The data can be fed into existing systems, enabling accurate calculations of whether transactions breach foreign stock ownership limitations. The service can be used by index providers to determine the "free float", and can be customized to meet individual client needs, including:

- Flexible data delivery options to complement existing client infrastructure.
- Customizable data feeds at the geographic or portfolio holding level.
- Tailored data fields selected from a wide range of available options.

## **Free Float Service**

The Free Float Service measures the percentage of a public company's shares that are freely available to the investing public. It serves as an indicator of the liquidity of a company's shares.

Since most indices are adjusted based on free float, companies are typically weighted by the value of shares available to portfolio investors rather than their total market capitalization.

EDI's Free Float Service allows clients to purchase each dataset separately. Where historical data is available, it can be acquired on an annual basis.

#### Methodology

When a stock exchange does not provide its free float methodology or only offers free float information for a limited number of securities, EDI applies its own methodology. This approach involves deducting the number of shares held by significant, controlling, or substantial shareholders (terminology may vary depending on the market) from the total number of shares outstanding.

To complement its Shares Outstanding Service, EDI now offers Free Float Data covering 69 exchanges worldwide. Additionally, EDI monitors another 72 markets where data is currently unavailable and will regularly review service coverage to expand its reach.

For each market, EDI provides a specific definition of free-floating shares to ensure clarity and consistency. The data includes detailed information, such as ISIN and issuer name, to enable precise identification of each security.

## **Global Entity Financial Sanctions**

The Global Entity Financial Sanctions data supports investors to make confident compliance decision-making and portfolio and risk management in pre- and post-investment into the market.

The risks associated with financial instruments have significantly increased due to recent expansions of international sanctions, which now cover a larger number of entities and individuals than before.

The Global Financial Sanctions Data includes over 200 entities listed across all countries. A dedicated team continuously monitors more than 20 major sanction authorities' websites daily, promptly processing the information.

The Sanctions Data is sourced from the official sanction-issuing authority websites, including United States, United Kingdom, United Nations, European Union, Canada, Switzerland, Japan, Australia, and other countries.



## Global Market and Public Holidays

The Global Market and Public Holidays service provides timely and accurate information on holiday observances affecting financial institutions such as Exchanges & Trading Venues, Banks, Settlement venues and Currency traders. Monitored daily, the service comprises over 2500 institutions with holiday observances for the next 30 years and historical data from 2001.

Product Description

- Holiday observances for the next 30 years
- Historical data from 2001
- Exchanges & Trading Venues 152 countries, 24 fields
- Banks 230 countries, 20 fields
- Currency 157 countries, 18 fields
- Settlements
  - Bank clearing 116 countries, 21 fields
    - Exchange clearing 136 countries, 20 fields
- Additional datasets: Bell to Bell Hours, Additional Trading Day, and Bond Market Holidays (U.S. and Canada)

#### Subscribers

- View holidays for the current month with the calendar view (online)
- Receive up-to-date information through daily email alerts.
- Load data into internal systems with SFTP delivery (csv, xls, or txt).
- Customized feeds to complement existing client infrastructure.

The information that is shown to the user includes:

Field	Exchange	Bank	Exchange Clearing	Bank Clearing	Currency
Institution	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Country Name	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Country 2 Code	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Country 3 Code	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Country Numeric	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Currency	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Currency Code	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Currency Numeric	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Region	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
GMT	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Time Zone	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Holiday Date	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Day of Week	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Holiday Type	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Holiday Name	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Trading Hours	$\checkmark$	-	$\checkmark$	-	-
Opening Hours	-	$\checkmark$	-	$\checkmark$	-
MIC	$\checkmark$	-	-	-	-
Operating MIC	$\checkmark$	-	-	-	-
OS Flag / MIC Code Type	$\checkmark$	-	-	-	-
City	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Settlement	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	-
Website	$\checkmark$	-	$\checkmark$	$\checkmark$	-
Location Code	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Notes	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$



## Historical Reference Service (HRS)

Subscribers will have access to multiple historical data services which are comprised of stocks listed on the U.S. and Canadian exchanges: 50,000 Active Securities; 125,000 Obsolete Securities; 2,500,000 Trackable Securities, and more.

#### Security Reference Service (SRS)

The Security Reference Service (SRS) provides subscribers with 24/7 access to FII's historical and reference databases. Packaged together with the Annual Guide to Stocks (printed edition), SRS delivers complete historical data coverage.

#### Active Stock Guide Service

The Active Stock Guide Service covers 50,000 United States and Canadian securities which are listed on US security exchanges, including companies incorporated offshore, full security issuer, Issue Descriptions, CUSIP© CISNS©: Place of Incorporation: Par Value: Transfer Agents, plus a separate section for inactive agents referencing the new agent: Transfer Charge: Dividend Disbursing Agent: Lead Underwriter: Poison Pills: Summary of Capital Changes & Stock Dividends for Active Stocks.

#### Obsolete Stock Guide

The Obsolete Stock Guide Service provides information on over 100,000 Obsolete Securities dating back to the late 1800s, Bankruptcies and Receiverships, Liquidations, Dissolutions, Corporate Charter Cancellations, Mergers & Acquisitions, Name Changes, Recapitalizations, Reorganizations, Stocks Declared Worthless, Summary of Capital Changes, and Stock Dividends for Obsolete Stocks.

#### End-of-Life (ELF) Service

The ELF service empowers subscribers to authenticate the accuracy of their Security Master File for North American Equities. ELF is now packaged with Security Reference Services (SRS) and subscribers have 24/7 access to FII's reference and historical databases.

ELF results are divided into the following subsets: Worthless & Equity Unlikely: Non- Transferable: Cashed Out: Identity Change – No Exchange; SEC Registration Revoked, and Company Terminating Registration.

Delivery

- Customized Solutions
- Print
- FII Online (Web-Based Query Service)
- Variable Length Records
- Fixed 80 Byte Records

## Index Constituents

Receive the up-to-date components comprising any of over 6000 indices including notification of changes in the component lists due to regular rebalancing as well changes due to index ineligibility.

This product can be used by professionals who require this information for securities/asset lending and/ or investment compliance as well as operators displaying the components of benchmark indices and investment research.

EDI tracks and collects index notifications from a wide range of index providers and covers many financial indices, including stock and bond indices as well as economic indicators.

The components are updated daily. Historical components lists are available based on legal advice. Using the EDI SFTP Server, you will receive the daily index composition of the indices that you subscribe to. The files are provided in TXT, CSV or XLS format. EDI provides a free coverage check and samples of the index components that are of interest to you.



#### Sample Data

04.	.08.2021 08:16	04.08.2021	59	36550	33041 Exelon Corp. Ordinary Shar EQS	US30161N10JEXC	Т
04.	.08.2021 08:16	04.08.2021	59	273203	93927 Expedia Groul Ordinary Shar EQS	US30212P303 EXPE	Т
04.	.08.2021 08:16	04.08.2021	59	36559	33050 Expeditors Int Ordinary Shar EQS	US302130109 EXPO	Т
04.	.08.2021 08:16	04.08.2021	59	169178	84162 Extra Space St Ordinary Shar EQS	US30225T102 EXR	Т
04.	.08.2021 08:16	04.08.2021	59	36574	33064 Exxon Mobil C Ordinary Shar EQS	US30231G10; XOM	Т
04.	.08.2021 08:16	04.08.2021	59	36590	33080 F5 Networks, Ordinary Shar EQS	US315616102 FFIV	Т
04.	.08.2021 08:16	04.08.2021	59	35130 95	148505 Facebook Inc Ordinary Shar EQS	US30303M 10 FB	Т
04.	.08.2021 08:16	04.08.2021	59	36651	33139 Fastenal Co. Ordinary Shar EQS	US311900104 FAST	Т
04.	.08.2021 08:16	04.08.2021	59	227951	90130 Federal Realt\ Ordinary Shar EQS	US313747206 FRT	Т
04.	.08.2021 08:16	04.08.2021	59	36672	33157 Fedex Corp Ordinary Shar EQS	US31428X106 FOX	Т
04.	.08.2021 08:16	04.08.2021	59	72639	63546 Fidelity Natiol Ordinary Shar EQS	US31620MI0•FIS	Т
04.	.08.2021 08:16	04.08.2021	59	36710	33194 Fifth Third Ba, Ordinary Shar EQS	US316773100 FITB	Т
04.	.08.2021 08:16	02.01.2019	59	22328 88	33393 First Republic Ordinary Shar EQS	US33616C100 FRC	Т
04.	.08.2021 08:16	04.08.2021	59	36956	33432 Firstenergy Cc Ordinary Shar EQS	US337932107 FE	Т
04.	.08.2021 08:16	04.08.2021	59	36969	33445 Fiserv, Inc. Ordinary Shar EQS	US337738108 FISV	Т
04.	.08.2021 08:16	20.06.2018	59	19500 06	138460 Fleetcor Tech, Ordinary Shar EQS	US339041105 FLT	Т
04.	.08.2021 08:16	04.08.2021	59	37013	33487 FMC Corp. Ordinary Shar EQS	US302491303 FMC	Т
04.	.08.2021 08:16	04.08.2021	59	37047	33521 Ford Motor c, Ordinary Shar EQS	US345370860 F	Т
04.	.08.2021 08:16	11.10.2018	59	15873 69	131796 Fortinet Inc Ordinary Shar EQS	US34959E109 FTNT	Т
04.	.08.2021 08:16	04.08.2021	59	47823 95	182984 Fortive Corp Ordinary Shar EQS	US34959J108: FTV	Т
04.	.08.2021 08:16	04.08.2021	59	30025 97	146408 Fortune Branc Ordinary Shar EQS	US34964C106 FBHS	Т
04.	.08.2021 08:16	19.03.2019	59	58441 16	210013 Fox Corporati, Ordinary Shar EQS	US35137L204 FOX	Т
04.	.08.2021 08:16	19.03.2019	59	58441 11	210013 Fox Corporati, Ordinary Shar EQS	US35137Ll05 FOXA	Т
04.	.08.2021 08:16	04.08.2021	59	37109	33579 Franklin Reso, Ordinary Shar EQS	US354613101 BEN	Т

## Security Reference Data (SRF)

Identify securities along with their standing data. Access up-to-date information on equities, warrants, fixed-income instruments, and various other types of securities traded on exchanges worldwide.

Instrument	Number	Instrument	Number
Bonds	979,094	Redeemable Shares	3
Contingent Value Rights	7	Stapled Securities	384
Covered Warrants	73,816	Structured Products	102
Depository Receipts	5,444	Subscription Receipts	19
Equity Shares	65,677	Tradeable Rights	162
Exchange Traded Commodities	1,378	Units	1,433
Exchange Traded Funds	14,545	Warrants	2,187
Letter of Allotments	131		

Statistics as per March 2025

Note: The volume of securities is derived using the country of primary exchange.

#### Undertake quick and accurate reference checks

Use the securities reference file to identify name changes and additions and deletions that occur in any stock comprised in the extensive database. The file covers 40 fields including:

- Country of Incorporation
- Country of Registration
- Currency
- Defunct Flag
- Exchange/Market Name
- Financial Instrument Global Identifier (FIGI)
- Financial Instrument Global Identifier Composite Country of Exchange (FIGI)
- Lot
- MIC Code
- Minimum Trading Quantity
- Paid-Up Value
- Par-Value
- Parent Security-ID
- Point-in-Time (PIT)
- Primary Exchange



- Financial Instrument Ticker (Composite Level) (Ticker + Exchange Code) (FIGI)
- Financial Instrument Ticker (Exchange Level) (Ticker + Exchange Code) (FIGI)
- ISIN
- Issue Price
- Issuer ID
- Issuer Name
- Listing Date
- Listing Status
- Local Code

\*Registered Trademark of London Stock Exchange.

#### Combine securities reference data with GICS®

- SEDOL™\*
- Security Description
- Security ID
- Security Type
- Shares Outstanding
- Status Flag
- Status Reason
- Stock Exchange Market Segment
- Ticker
- US Code
- Voting Rights per Share

The Global Industry Classification Standard (GICS®) is a four-tiered, hierarchical industry classification system used by the global financial community. Companies are assigned a single GICS classification at the Sub-Industry level based on their principal business activity.

Classify securities by industry sector and utilize the universal, reliable, and comprehensive information provided to capture and assess the impact of global, regional, and local industry portfolio trends.

The US-listed Exchange Traded Funds data is now available. EDI clients can now access ETF Global Data comprehensive set of reference and analytics data for US-listed Exchange-Traded Funds. This data is primarily sourced directly from fund sponsors, custodians, distributors, and exchanges.

## Universal Depositary Receipts (UDR)

The universal depository receipt database uniquely provides comprehensive details on all American depository receipts (ADRs), global depository receipts (GDRs) and other depository receipts.

The database currently holds over 3300 records in covers both underlying stock descriptions and security codes, as well as the depository receipts. This information is compiled from four main depositories, banks, stock exchanges, and companies themselves.

#### Facilitate the conversion of depository receipts into ordinary shares.

The database contains market-level links between the depository receipts and the underlying share. It includes coding and listing information, ratio information, depositary bank details, the level description and sponsored/unsponsored status.

## **U.S. Options Reference Data**

#### Received through direct exchange notification and OCC announcements

Given Symbol Master Inc's core focus on Standardized Options, the primary offering includes Options Strikes and Series that are available, maintained, and expired for all available Issues and Series in the open market.

From the content, users can identify all traded Issues included in the Standardized Options universe. Once all Root Issues are known, SMI provides EOD Pricing Details based on Official Closing Values for both Root and Options Symbol population.

#### **Issue Extended Files**

The Issue Extended files show details on the underlying symbol including company names and primary exchanges. The Issue Extension version includes a field to identify if an issue is an ETF.

#### Series Extended Files

The Series Extended files are the full options series master. They contain every strike that is listed including next day adds for every options exchange. Multiple versions available based on the level of detail required for client-specific security master attributes.



#### Issue Deliverable

The Issue Deliverable files provide the current deliverable values for all option symbols. Multiple versions are available, tailored to the detailed level of reference data required by clients.

#### **Position Limit**

**Position limits** are preset underlying levels of ownership established by exchanges or regulators. These limits restrict the number of shares that a trader or any affiliated group of traders and investors can own. This information Includes revert limits and revert dates to help firms substantiate their Risk Level Trading thresholds.

#### Near Term Position Limit

The Near-Term Position Limit files show which symbols have near term limits either by shares or contracts and their values. Near-term position limits refer to preset levels of ownership established by exchanges or regulatory bodies. These limits restrict the number of shares or derivative contracts that a trader or any affiliated group of traders and investors can own. This information is used by financial industry firms to substantiate their Risk Level Trading thresholds.

#### **Option Style**

The Option Style file shows the contract style (American/European) and the settlement style (AM/PM) of each option.

#### EOD Pricing Files

The EOD Pricing files contain end-of-day underlying level pricing captured in the Trade Summary Reports of the Primary Exchange. The files are available for both the universe of underlying symbols with active options and for the full equity universe.

#### **EOD Option Price**

The EOD Option Price file contains end of day option level pricing and is captured in the Trade Summary Reports of the Primary Exchange.

#### **Open Interest**

The Open Interest file is created in the morning and shows the starting open interest for all options.

#### **Option Volume**

The Option Volume file is created in the morning and shows the previous day's option level volume as reported by OPRA.

#### **Option Strike Volume**

The Option Strike Volume file is created in the morning and shows the previous day's strike level volume as reported by OPRA.

#### **Option Cleared Volume**

The Option Cleared Volume is created in the morning and shows the previous day option level volume as reported by the OCC.

#### **Additional Datasets**

Received Through Proprietary Symbol Master Processes / Direct Exchange Notices / OCC Announcements This content allows clients to receive the final data updates necessary to bridge the Reference data gap to position and risk management systems capabilities.

#### Expiry Schedule

The Expiry Schedule file lists active expiration dates and their associated expiration frequencies for all Standardized and FLEX Options.

#### Series Option Chain

The Series Option Chain file tracks which option symbols belong to each underlying for both standard and adjusted options.

#### Series Expiry

Customized file that contains a high-level view of what expiration dates are available for each option symbol. This content is used by automated trading consumers to automate the Roll Process for portfolio management purposes.



#### Series Expiry Deletes

Customized file that tracks when expirations are removed from the Series Expiry file. This content is used by automated trading consumers and market data vendors to automate the Roll Process for portfolio management purposes and the management of Actively traded symbols.

#### Dividend

#### Direct Exchange & Enriched

The Dividend file offering shows the most recently declared and officially announced Corporate Action Dividend events including the Ex-Date, Record Date, Pay Date and the dividend amount. Symbol Master currently supports two versions of the Dividend file offering.

#### **Penny Equities**

The Penny Equities file is a list of underlying symbols that are in the Penny Pilot program. This is an end of day file and reflects what symbols were part of the penny pilot program on that day.



# Tax Data

## Worldwide Equity Cost Basis

## Effortlessly track both a security cost basis and its evolution

With EDI's cost basis service, clients can fully understand how security has evolved over a certain period from the original, holding to all new issues.

The service covers equities on a global level.

It calculates and disseminates our locations and ratios to the per security level for all events that impact on a security coast basis.

Records are disseminated for each issued security and identify the original security, the issued security, and all necessary fields to identify the event, manage the cost basis, and track changes in the number of shares.

Data elements include:

- Allocation Factor
- Listed and Primary exchanges
- Price, Market Value

- Event Type and Description
- Old & New Identifiers (ISIN, Local Code)
- Round

- Issuer Name
- Old/New Shares Ratio

Also, subscribers of the worldwide corporate action service can easily link back to the corporate action using the event ID field.

EDI also provide Rescind records, enabling users to automate the process of reversing or removing the originally applied allocation after an event has been cancelled.



# Exchange Coverage

Below is the list of exchanges covered by EDI's service range as of April 2025.

## Africa

Country	Exchange	Exchange Code
Algeria	Algiers Stock Exchange	DZASE
Angola	Angola Securities Exchange	AOBND
Botswana	Botswana Stock Exchange	BWBSE
Cape Verde	Cape Verde Stock Exchange	CVCVSX
Egypt	Egyptian Exchange	EGCASE
Gabon	Regional Stock of Central Africa	GABVCA
Ghana	Ghana Stock Exchange	GHGSE
Ivory Coast	Regional Stock Exchange of West Africa	CIBVA
Kenya	Nairobi Securities Exchange	KENSE
Lesotho	Maseru Securities Market	LSMSM
Malawi	Malawi Stock Exchange	MWMSE
Mauritius	Stock Exchange of Mauritius	MUSEM
Morocco	Casablanca Stock Exchange	MABVC
Mozambique	Mozambique Stock Exchange	MZMSX
Namibia	Namibian Stock Exchange	NANSE
Nigeria	Nigerian Stock Exchange	NGNSE
Rwanda	Rwanda Stock Exchange	RWRSE
Seychelles	MERJ Exchange	SCSSE
South Africa	Cape Town Exchange	ZA4AX
South Africa	A2X Markets	ZAA2X
South Africa	Equity Express Securities Exchange	ZAEESE
South Africa	Johannesburg Stock Exchange	ZAJSE
Swaziland	Eswatini Stock Exchange	SZSS
Tanzania	Dar es Salaam Stock Exchange	TZTSE
Tunisia	Tunis Stock Exchange	XTUN
Тодо	Togo Unlisted Bond	TGBND
Tunisia	Tunisia Stock Exchange	TNTSE
Uganda	Uganda Securities Exchange	UGKSE
Uganda	Uganda Stock Exchange	UGUSE
Zambia	Lusaka Stock Exchange	ZMZSE
Zimbabwe	Zimbabwe Stock Exchange	ZWZSE
Zimbabwe	Victoria Falls Stock Exchange	ZWVFSE

## Asia

Country	Exchange	Exchange Code
Armenia	Armenia Securities Exchange	AMASE
Bangladesh	Chittagong Stock Exchange	BDCSE
Bangladesh	Dhaka Stock Exchange	BDDSE
Bhutan	Royal Securities Exchange of Bhutan	BTRSEB
Cambodia	Cambodia Securities Exchange	KHCSX
China	Shanghai Stock Exchange	CNSGSE
China	Shenzhen Stock Exchange	CNSSE
China	Inter-Bank Bond Market	CNIBBM
China	Shanghai Hong Kong Stock Connect - Northbound	CNSGHK
China	Shenzhen Hong Kong Stock Connect -Northbound	CNSZHK
China	Beijing Stock Exchange	CNBJSE
Hong Kong	Hong Kong Shanghai Stock Connect - Southbound	HKHKSG
Hong Kong	Hong Kong Shenzhen Stock Connect - Southbound	HKHKSZ
Hong Kong	Hong Kong Stock Exchange	HKSEHK
India	BSE Ltd.	INBSE
India	Metropolitan Stock Exchange of India	INMCX



India	India Unlisted Bond	INBND
India	Reserve Bank of India	INRBI
Indonesia	Indonesian Stock Exchange	IDJSE
Indonesia	Indonesia Unlisted Bond	IDBND
Indonesia	Surabaya Stock Exchange	IDSSX
Japan	Nagoya Stock Exchange	JPNSE
Japan	Osaka Securities Exchange	JPOSE
Japan	Tokyo Stock Exchange	JPTSE
Japan	Jasaq Securities Exchange	JPJASD
Korea (South)	Korea Stock Exchange	KRKSE
Korea (South)	KOSDAQ	KRKNX
Korea (South)	Korea New Exchange	KRKNX
Kyrgyz Republic	Kyrgyz Stock Exchange	CNBJSE
Laos	Lao Securities Exchange	LALSK
Malaysia	Malaysian Exchange	MYKLSE
Maldives	Maldives Stock Exchange	MVMSX
Mongolia	Mongolian Stock Exchange	MNSE
Myanmar	Yangon Stock Exchange	MMYSX
Nepal	Nepal Stock Exchange	NPBND
Pakistan	Pakistan Stock Exchange	PKKSE
Philippines	Philippine Stock Exchange	PHPSE
Singapore	Singapore Exchange	PKLSE
Sri Lanka	Colombo Stock Exchange	LKCSE
Taiwan	Taipei Exchange	TWOTC
Taiwan	Taiwan Stock Exchange	TWTSE
Tajikistan	Central Asian Stock Exchange	TJCASE
Thailand	Stock Exchange of Thailand	THSET
Uzbekistan	Tashkent Republican Stock Exchange	UZTRSX
Vietnam	Hanoi Stock Exchange	VNHSTC
Vietnam	Hochiminh Stock Exchange	VNSTC

## Europe

Country	Exchange	Exchange Code
Albania	Tirana Stock Exchange	ALTSE
Austria	Vienna Stock Exchange	ALTSE
Azerbaijan	Baku Stock Exchange	AZBSE
Belarus	Belarus Currency and Stock Exchange	BYBCSE
Belgium	Euronext Brussels	BEENB
Bosnia and Herzegovina	Banja Luka Stock Exchange	BABLSX
Bosnia and Herzegovina	Sarajevo Stock Exchange	BASASE
Bulgaria	Bulgaria Stock Exchange – Sofia	ABGBSE
Channel Islands	The International Stock Exchange	GGCISX
Croatia	Zagred Stock Exchange	HRZSE
Cyprus	Cyprus Stock Exchange	CYCSE
Czech Republic	Prague Stock Exchange	CZPSE
Denmark	Nasdaq Nordic Copenhagen	DKCSE
Estonia	Nasdag Baltic Tallinn	EETSE
Faroe Islands	Faroese Security Market	FOFSM
Finland	Nasdag Nordic Helsinki	FIHSE
France	Euro Next Paris	FRPEN
Georgia	Georgia Stock Exchange	GEGSE
Germany	Berlin Stock Exchange	DEBSE
Germany	Dusseldorf Stock Exchange	DEDSE
Germany	Frankfurt Stock Exchange	DEFSX
Germany	Hanover Stock Exchange	DEHNSE
Germany	Hamburg Stock Exchange	DEHSE
Germany	Munich Stock Exchange	DEMSE
Germany	Certificates Stock Exchange in Frankfurt	DESCH
Germany	Stuttgart Exchange	DESSE



Germany	Xetra	DEXETR
Gibraltar	Gibraltar Stock Exchange	GIGSX
Greece	Athens Stock Exchange	GRASE
Hungary	Budapest Stock Exchange	HUBSE
Iceland	Nasdaq Nordic Iceland	ISISE
Ireland	Euro Next Dublin	EISE
Italy	Italian Exchange	ITMSE
Kazakhstan	Astana International Exchange	KZAIX
Kazakhstan	Kazakhstan Stock Exchange	KZKASE
Latvia	Nasdaq Baltic Riga	LVRSE
Lithuania	Nasdaq Baltic Vilnius	LULSE
Luxembourg	Luxembourg Stock Exchange	LULSE
Macedonia	Macedonian Stock Exchange	MKMSE
Malta	Malta Stock Exchange	MTMSE
Moldova	Moldova Stock Exchange	MDMSE
Montenegro	Montenegro Stock Exchange	MEMSE
Netherlands	Euro Amsterdam	NLENE
Netherlands	CBOE Netherlands	NLCBOE
Norway	Euronext NOTC	NOOTC
Norway	Oslo Bors	NOOB
Poland	Poland Over-The-Counter Stock Exchange	PLOTC
Poland	Warsaw Stock Exchange	PLWSE
Portugal	Euronext Lisbon	PTBVL
Romania	Bucharest Stock Exchange	ROBSE
Romania	RASDAQ	RORASD
Russia	Moscow Exchange MICEX-RTS	RUMICX
Russia	Russia Trading System	AURTS
Russia	St Petersburg Currency Exchange	AUSPCE
Serbia	Belgrade Stock Exchange	RSBEL
Slovak Republic	Bratislava Stock Exchange	SKBSE
Slovenia	Ljubljana Stock Exchange	SILSE
Spain	AIAF - Fixed Income Mark	ESAIAF
Spain	Bilbao Stock Exchange	ESBBSE
Spain	Barcelona Stock Exchange	ESBSE
Spain	BME Growth	ESMAB
Spain	Madrid Stock Exchange	ESMSE
Spain	Spanish Stock Exchange Interconnection System	ESSIBE
Spain	Valencia Stock Exchange	ESVSE
Sweden	Nordic Growth Market	SENGM
Sweden	Nasdaq Nordic Stockholm	SESSE
Sweden	Spotlight Stock Market	SESSM
Switzerland	Band Exchange	CHBRN
Switzerland	SIX Structure Product Exchange	CHSCH
Switzerland	Six Swiss Exchange	CHSSX
Turkey	Istanbul Stock Exchange	TRIMKB
Ukraine	Innex Stock Exchange	UAINX
Ukraine	PFTS Stock Exchange	UAP FTS
Ukraine	Perspektiva Stock Exchange	UAPSX
Ukraine	Kiev International Stock Exchange	UAUX
Ukraine	Ukrainian Exchange	UAKISE
United Kingdom	Euro Next London	GBENLN
United Kingdom	London Stock Exchange	GBLSE
United Kingdom	Aquis Stock Exchange	GBOFX
United Kingdom	London Stock Exchange Electronic Quotation	GBSEAQ
United Kingdom	UK Unit Trust Exchange	GBUT
U		



## Latin America & the Caribbean

Country	Exchange	Exchange Code
Argentina	Buenos Aires Stock Exchange	ARMVB
Argentina	Argentina Open Electronic Exchange	AROEX
Argentina	Rosario Commerce Exchange	ARRCX
Bahamas	Bahamas International Security Exchange	BSBSE
Barbados	Barbados Stock Exchange	BBSEB
Bermuda	Bermuda Stock Exchange	BMBSE
Bolivia	Bolivian Stock Exchange	BOBVB
Brazil	B3 – Brazil Stock Exchange and Over the Counter Market	BRBVSP
Cayman Islands	Cayman Islands Stock Exchange	KYSX
Chile	Santiago Stock Exchange	CLBCS
Chile	Chilean Electronic Exchange	CLBEC
Columbia	Colombian Stock Exchange	COCSX
Curacao	Dutch Caribbean Security Exchange	CWDCSE
Dominican	Dominican Republic Stock Exchange	DODRS
Republic		
Ecuador	Guayaquil Stock Exchange	ECGSE
Ecuador	Quito Exchange	ECQSE
El Salvador	El Salvador Stock Exchange	SVMVSV
Guyana	Guyana Stock Exchange	GYGSX
Guatemala	National Stock Exchange (Guatemala) Chilean Electronic Exchange	GTGSE
Haiti	Haitian Stock Exchange	HTHTSE
Jamaica	Jamaica Stock Exchange	MJSE
Suriname	Suriname Stock Exchange	SRSSX
Mexico	Mexico Stock Exchange	MXMSE
Mexico	Institutional Stock Exchange	MXBIVA
Nicaragua	Nicaragua Stock Exchange	NIBND
Panama	Panama Stock Exchange	PABND
Papua New Guinea	Papua New Guinea National Stock Exchange	PGNSE
Paraguay	Stock Exchange	PYBND
Peru	Suriname Stock Exchange	PEBND
ST. Kitts and Nevis	Eastern Caribbean Securities Exchange	KNECSE
Trinidad and	Trinidad And Tobago Stock Exchange	TTBND
Tobago	5 5	
Uruguay	Montevideo Stock Exchange	UYBVM
Venezuela	Caracas Stock Exchange	VECSE
	5	

## Middle East

Country	Exchange	Exchange Code
Bahrain	Bahrain Baru	BHBSE
Iran	Tehran Stock Exchange	IRTSE
Iran	Iran Fara Exchange	IRIFX
Iraq	Iraq Stock Exchange	IQISX
Israel	Tel Aviv Stock Exchange	ILTSE
Jordan	Aman Stock Exchange	JOASE
Kuwait	Kuwait Stock Exchange	KWKSE
Lebanon	Beirut Stock Exchange	LBBSE
Oman	Muscat Security Market	OMMSM
Palestine	Palestine Exchange	PSAFM
Qatar	Qatar Exchange	QADSM
Saudi Arabia	Saudi Stock Exchange	SARSE
United Arab Emirates	Abu Dhabi Securities Exchange	AEADSM
United Arab Emirates	Dubai Financial Market	AEDFM
United Arab Emirates	Nasaq Dubai	AEDIFX



## North America

Country	Exchange	Exchange Code
Canada	Canadian Securities Exchange	CACNQ
Canada	Montreal Exchange	CAMSE
Canada	NEO Exchange	CANEO
Canada	Toronto Stock Exchange	CATSE
Canada	TSX Venture Exchange	CACVE
United States	CBOE BZX US Equities Exchange	USBATS
United States	Finra OTCBB	USFNBB
United States	FINRA TRACE	USTRCE
United States	Investors Exchange	USIEX
United States	NASDAQ Stock Market	USNASD
United States	New York Stock Exchange	USNYSE
United States	National NASDAQ Stock Exchange	USNNAS
United States	NYSE Arca	USPAC
United States	OTC Market Groups	USOTC
United States	Pink OTC Markets	USPINK
United States	Pink Sheets Grey Market	USPSGM
United States	US Unlisted Equity	USNYSE

## Oceania

Country	Exchange	Exchange Code
Australia	Australia Securities Exchange	AUASX
Australia	National Stock Exchange of Australia	AUNSE
Australia	CBOE Australia	AUCBOE
Australia	Sydney Stock Exchange	AUSSX
Fiji	South Pacific Stock Exchange	FJSPSX
New Zealand	NZX	NZSE

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## Customization

EDI is proud to offer the most effective and efficient solutions tailored to meet each individual customer's needs. We offer a range of customization options including:

- Delivery-based solutions to complement existing client infrastructure.
- Content delivered at the geographical or portfolio holding level.
- Feeds delivered in various formats, field content and integrated client level data items.

EDI uses its extensive data research expertise to source, scrub and integrate new client specified data items with existing products and services. For instance, a request from a multinational investment bank to source the DR universe and map it against its underlying share portfolio ultimately led to the development of EDI's successful Depositary Receipt Database.

In addition, EDI was the first vendor to successfully launch an ISO 15022 Corporate Action Messaging feed. This enables customers to reduce costs and increase efficiency by removing the need for multiple feed handlers.

## Support

Customer Support

Monday – Friday Open 24 hours

Saturday Support Coverage ends 8am (GMT)

Support Coverage resumes at 11pm (GMT)

Support Coverage is not available Saturday 8am to Sunday 11pm

Email: <a href="mailto:support@exchange-data.com">support@exchange-data.com</a>

Customer support is closed on Christmas and New Year's Day.

We aim to acknowledge all queries within an hour of receipt and answer queries within 24 hours where possible.

We will send a progress report if a query is not resolved within that timeframe. We resolve around 95% of customer queries within 24 hours.

All queries sent to our Support department are filtered and dispatched to the relevant department. An IT staff member is engaged in the communication process to resolve complicated technical issues.

Call +44 207 324 0020



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## Morocco

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Other Locations (Incl. Austria, Bulgaria, Croatia, Czech Republic, Estonia, Germany, Hungary, Latvia, Lithuania, Moldova, Poland)

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