

General Company Overview

# Doing data differently



Helping the global financial community make informed decisions through the provision of fast, accurate, timely and affordable reference data services

With more than 20 years of experience, we offer comprehensive and complete securities reference and pricing data for equities, fixed income and derivative instruments around the globe.

Our customers can rely on our successful track record to efficiently deliver high quality data sets including:

- Worldwide Corporate Actions
- Worldwide Fixed Income
- Security Reference File
- Worldwide End-of-Day Prices

Exchange Data International has recently expanded its data coverage to include economic data. Currently it has three products:

- African Economic Data <u>www.africadata.com</u>
- Economic Indicator Service (EIS)
- Global Economic Data

Our professional sales, support and data/research teams deliver the lowest cost of ownership whilst at the same time being the most responsive to client requests.

As a result of our on-going commitment to providing cost effective and innovative data solutions, whilst at the same time ensuring the highest standards, we have been awarded the internationally recognized symbol of quality ISO 9001.

Headquartered in United Kingdom, we have staff in Canada, India, Morocco, South Africa and United States.



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### **Reference Data**

### Security Reference Data (SRF)

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

Get up to date information on equities, warrants, fixed income instruments and many other types of securities traded on exchanges worldwide.

Instrument	Volume
Bonds	640,764
Chess Depository Interests	8
Contingent Value Rights	9
Covered Warrants	230,919
Depository Receipts	4,334
Equity Shares	62,862
Exchange Traded Commodities	133
Exchange Traded Funds	7,049
Exchange Traded Notes	2
Letter of Allotments	94
Parallel Lines	14

Instrument	Volume	
Preference	4.269	
Shares	4,209	
Preferred	866	
<b>a</b> 141	000	

Redeemable	12
Shares	
Redemption	4
Rights	-
Stapled	168
Securities	100
Structured	254
Products	204
Subscription	29
Receipts	29
Tradeable	100
Rights	188
Unit Trusts	49,180
Units	1,259
Warrants	1,994

#### Statistics as per June 2018

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 files cover 40 fields including:

- Financial Instrument Ticker (Composite Level) (Ticker + Exchange Code) (FIGI)
- Financial Instrument Ticker (Exchange Level) (Ticker + Exchange Code) (FIGI)
- Financial Instrument Global Identifier (FIGI)
- Financial Instrument Global Identifier Composite Country of Exchange (FIGI)
- Country of Incorporation
- Country of Registration
- Currency

Securities

- US Code
- Defunct Flag
- Exchange/Market Name

- Issue Price
- Paid Up Value
- Issuer ID
- Issuer Name
- Listing Date
- Listing Status
- Local Code, Ticker
- Lot
- MIC Code
- Minimum Trading Quantity
- Par Value
- Point In Time (PIT)

- Parent Security ID
- Primary Exchange
- Security Description
- Security ID
- Security Type
- SEDOL<sup>TM</sup>
- Share Outstanding
- Status Flag
- Status Reason
- Stock Exchange Market Segment
- Voting



#### Combine securities reference data with GICS®

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

#### US listed Exchange Traded Funds data now available

Clients of EDI are now able to gain access to ETF Global Data - a comprehensive set of reference and analytics data for U.S. Listed Exchange-Traded Funds primarily sourced directly from fund sponsors, custodians, distributors and exchanges.

### **Global Market Holidays and Timings**

#### Direct access to the next 25 years of official holidays observed by financial institutions in more than 130 countries.

The service provides Global Market Holidays and Timings over the web enabling quick access to specific instructions or country, as well as giving the option to create specific email alert.

In addition, subscribers can easily integrate country Global Market Holidays and Timings calendars into their email solution (Outlook & Google Mail).

The information that is shown to the user includes:

- Institution Code
- Holiday Name
- Settlement Details and notes

- Institution Notes
- **Opening Notes**
- Holiday Type (Full or Partial)
- GMT Time Zone difference

- Holiday Notes
- **Opening Closing Times**

### **Equity Corporate Actions**

### Worldwide Corporate Actions (WCA)

From new listings to bankruptcy, the Worldwide Corporate Actions service covers events affecting Equity Shares, ETFs, Covered Warrants, Warrants, Depository Receipts, and Structured Products.

Our service focuses on crucial events, which can be divided into four main categories

#### **General events**

#### Static data change events

- Announcement
- Arrangement
- Call
- Company meeting
- Lawsuit/Class action
- Listing status change
- Financial year change
- Incorporation change
- International code change
- Issuer name change
- Local code change
- Lot change
- Security description
- SEDOL<sup>™</sup> change

#### Securities exchange events

- Certificate exchange
- Demerger/spinoff
- Merger
- New listing
- Preferential offer
- Purchase offer
- Security reclassification
- Security swap
- Takeover



#### Capital change events

- Assimilation
- Bankruptcy
- Bonus/capitalization
- Bonus rights
- Buy back/repurchase offer
   Distribution/distribution in specie
- Capital reduction

#### Consolidation/reverse stock split

- Conversion terms
- Conversion terms change
- Currency redenomination
- Divestment
- Dividend
- Dividend reinvestment plan
- Franking
- Entitlement/open offer
- Liquidation
- Par value redenomination
- Redemption terms
- Return of capital
- Riahts
- Sub division/stock split

New: In addition to 3 daily feeds, we have now added an extra email notification for WCA which will

include any corporate actions announced or updated on the day, having effective date on the following working day.

Worldwide Dividend (WDI)

Reduce the challenge of managing information about how much shareholders are likely to receive and when dividends will be paid.

- A portfolio import facility allows users to load details of a portfolio into the software using SEDOL<sup>™</sup>, ISIN or Local (ticker) codes
- Detailed dividend reports can be produced for securities held in the portfolio
- . Announcements are available on cash, stock (script) and multiple payment choices through foreign currency options

New: In addition to 3 daily feeds, we have now added an extra email notification for WDI which will include any dividends announced or updated on the day, having ex-date on the following working day.

### Woodseer - Dividends Forecasting Service

EDI and Investment Tools have partnered to launch Woodseer Dividend Forecasting - the world's first dividend forecasting data-set with global coverage. Woodseer is the world's most comprehensive forecasting service for dividends, with over 260,000 forecasts across 40,000 listings being covered. Clients of EDI will benefit from this highly valuable service, when making decisions for stock selection, income planning, option pricing and dividend capture.

#### Woodseer Algorithm Forecasting Methodology

Woodseer is an advanced algorithmic system for accurately predicting future dividend payments and dates associated with a vast array of securities across the global market. Woodseer incorporates a huge database of corporate actions extending back to 2012 to build up patterns of dividend payments, identifying changes in shares in issue (through rights issues, consolidations, bonus issues and subdivisions) and recording various types of disbursements.

Combining algorithmic calculations with input from our London-based analyst team, the process involves inspecting dividend history, incorporating changes to the issued share capital, identifying

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patterns, and calculating individual forward amounts and dates two years ahead. Where a clear pattern cannot be identified (e.g. due to a recent change in the fiscal year-end date, a resumption or cut of dividend, or alteration in the dividend payment pattern) the security is flagged to our analysts who perform individual market research to forecast the data.

#### Woodseer Data Spec

- 2,300,000+ corporate actions
- 118,000+ individual forecasts
- 40,000+ securities globally
- 100+ countries
- 950+ indices
- Europe: 3,300+ securities
- 20,000+ securities with forecasts

- Latin America: 500+ securities
- Middle East & Africa: 950+ securities
- North America: 5,700+ securities
- Asia Pacific: 10,150+ securities
- Shares Outstanding Figures

### 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 official updates varies from market to market. Updates can also range from daily to annually.

#### Adjusted Shares Outstanding

When corporate actions occur prior to the release of official updates, the number of shares outstanding can be impacted drastically. Use the adjusted shares outstanding data set to provide you with 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.

#### Easily identify each security

Take advantage of data content including:



#### Official Shares Outstanding

- Country
- 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

### Initial Public Offerings

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

We monitor IPOs using local stock exchanges as the primary source of information, along with additional secondary sources such as international news agencies 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.
Rumour	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 date is more than two days ago.

### Universal Depositary Receipts (UDR)

#### Get first class data on all available issues

The Universal Depositary Receipt database uniquely provides comprehensive details on all American depository receipts (ADRs), global depository receipts (GDRs) and other depositary receipts.

The database currently holds over 3,300 records and covers both underlying stock descriptions and security codes, as well as the depositary receipts. This information is compiled from the four main depositary banks, stock exchanges and companies themselves.



#### Facilitate the conversion of DRs into ordinary shares

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

### US Bankruptcy Data

The US Bankruptcy Data service is a partnership between **Exchange Data International (EDI)** and **New Generation Research, INC**.

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 the public company bankruptcy.

We cover over 340 fields including: plans of reorganization and disclosure statements, debtor-inpossession financing information, professional retention data, 363 sales motions, key employee incentive plans, monthly operating reports, claim transfer activity, securities and security pricing data, committee information and many more.

#### Data Feeds

US Bankruptcy Data is available through **FTP**, **API**, **Flat files**, and more. 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
- Etc.



### Security Class Actions

Financial Institutions must ensure they are actively fulfilling their fiduciary duty of care to their clients who may be shareholders in a company accused of wrongdoing. Those acting on behalf of disadvantaged shareholders should ensure they advise their clients of their rights and entitlement.

We offer a cost effective and proven service which satisfies the requirements of financial institutions ensuring a viable, efficient and flexible solution for securities class actions, bankruptcy and government disgorgements.

We provide institutions and their eligible clients with the necessary tools to claim the settlement funds due to them and assist them through every stage of the securities class action process, from the alerting of a complaint to filing of a proof of claim form.

### **Fixed Income Data**

### 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 **Worldwide Fixed Income** service.

Security Type	Volume	Security Type	Volume	Security Type	Volume
Bankers' Acceptances	1,344	Certificates	2,305	Permanent Interest	29
Bonds	240,412	Debentures	21,763	Bearing Shares Preferential Securities	4,269
Covered Bonds	6,467	Loan Notes	440	Reference Bills	4,209
Certificates of Deposit	60,038	Loan Stock	632	Structured Products	813
Cash Management Bills	219	Medium Term Notes	139,739	Strip Packages	865
Commercial Paper	12,368	Notes	148,726	Treasury Bills	3,799
Capital Securities	651	Preferred Securities	865	Treasury Dills	5,799
				Statistics as per June 2018	

Statistics as per June 2018 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.



**Securities** 

exchange events

#### Static data events

- Agency Change
- Agency Details Change
- Bond Static Change
- Conversion Terms Change
- Incorporation change Interest Rate Change
- Interest Frequency
- Change International code
- change Issuer name change
- Local code change

- Maturity Change
- New Issue
- Redemption
- Redemption Change
- Registered Office
- Change Security Agency
- Change
- SEDOL<sup>™</sup> change
- Selling Restrictions Change

- Bond Outstanding Value
   Conversion Call
- Currency Redenomination

**Distribution events** 

- Interest
- Interest Payment
- Listing Status Change
- Reconvention
- Redenomination

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

### **Fixed Income Documenter**

#### Gain access to EDI's huge library of fixed income securities offering documents

WFI Documenter is a web-based application that fully complements the Worldwide Fixed Income proprietary feed and browser products. Users benefit from access to its huge library of offering documentation for fixed income securities.

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

- Offering circulars
- Prospectuses

- Terms sheets
- **Pricing supplements**

#### Easily locate documents for retrieval

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



### Fixed Income Derived Data (bond<sup>Σ</sup>)

The service combines our worldwide fixed income and bond-pricing data with algorithms from our partner who specialises in cloud based financial applications.

Bonds currently covers 150,000 exchange traded debt securities including government and corporate, fixed rate, floating, and convertible issuance, providing clients with an insightful report on the global fixed income market.

#### Value and efficiently manage portfolios

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 8am GMT.

Accrued Interest

Yield to Maturity

Yield to Call

Yield to Put

Convexity

Yield to Worst

Macaulay Duration

Effective Duration

Yield

- Modified Duration
  - **Key-Rate Duration** 
    - Exchange Code
    - Market Close Date .
    - Last Trade Date
  - **Closing Price** 
    - Price Currency
  - Open
  - High

Mid

Low

Ask 

- Bid
- **Bid Size**
- Ask Size
- Traded Volume
- Volume Flag
- Settlement Date

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

#### ISIN

- US Code
- Security ID
- Local code
- Issuer name
- Security description
- Country of incorporation

- Currency
- Nominal value
- Outstanding amount
- Interest type
- Interest rate
- Interest payment
- Frequency
- FRN index benchmark
- Mark-up

- Maturity date
- Maturity price as per cent
- Call/Put flag
- Call/Put type
- Callable from/to date
- Call price

Use bond<sup>5</sup> to get the necessary data required to efficiently control the risk associated with fixed income portfolios, project security or portfolio returns, as well as complying with regulatory requirements.

### 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:

- Corporate Bonds
- Municipal Bonds
- Syndicated Bank Loans
- Agency MBS

- Non-Agency CMO .
- CMBS
- ABS •
- CLO

- Issue date Issue price
- Bond type
- Bond



#### **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

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



### Canadian Fixed Income Evaluated Pricing

EDI has partnered with fixed income evaluation specialist, Evaluated Data International, and is now able to provide Evaluated Pricing for almost the entire Canadian Fixed Income market

#### **Canadian Fixed Income Securities**

Located in Canada, Evaluated Data International uses proprietary Evaluated Pricing methodologies, based on the most recent market information, to compute Evaluated Prices for Canadian fixed income securities issued by:

- Governments
- Canadian provinces •
- Municipals
- . Corporates

Government agencies or crown corporations (e.g. CMHC, Hydro-Quebec)

Using a comprehensive database of terms and conditions, Evaluated Prices are computed for a large range of fixed income securities, including securities with the following characteristics:

- Floating Coupon Rate
- Fixed-Floating Coupon Rate
- Step-Up / Step-Down Coupon
- . Zero-Coupon

- Strip (Principal Strip / Coupon Strip)
- Callable / Puttable
- Inflation-linked ("Real-Return Bonds")

#### Robust and transparent pricing methodology

Multiple sources, including trading desks of major investment dealers and banks, are employed to gather market information on fixed income securities and this approach has several benefits:

- Experts lend great insight and keep us informed of the latest market developments
- Using many different sources gives us the ability to filter out source biases
- Technical factors affecting delivery of information from any one source can never affect our ability to deliver timely evaluated prices to our clients

#### **Challenge process**

Challenges are the process by which clients can verify the valuation of any security on a given date. We believe that this process is a great opportunity to explain our pricing methodology to our clients as well as an opportunity to improve our evaluated pricing process.

#### **Dynamic portfolios**

Clients are able to add new fixed income securities to their portfolio, at their convenience. New securities go through a rigorous research process in order to gather full knowledge of all terms and conditions and related market information before delivering an Evaluated Price inside a 48-hour window.

### **Fixed Income Message Parsing**

The Fixed Income Message Parsing service is a partnership between Exchange Data International (EDI) and Solve Advisors. Solve has developed state of the art parsing technology that extracts all bids and offers within clients' emails and overlays it with anonymized pricing data from our contributors, helping provide price transparency and daily workflow tools.



#### Highlights:

- Real-time email parsing
- Overlay contributed pricing
- Real-time Composite Pricing for Bank Loans
- Access intraday and historical pricing
- Streamline the BWIC and Offerings Process
- Integrate with internal systems
- Utilize collaboration, screening, & notification tools
- Import & export capabilities
- Easy to use interface

#### Parsing Technology

- Language recognition algorithms (Fuzzy) approach and therefore not format or template dependent like others
- Real-time observable market data
- Over 97% accuracy parsing highly unstructured messages
- Parse 4mm+ quotes daily across all Asset Classes

#### **Asset Classes Covered**

- All Structured Products
- Corporates

- Syndicated Bank Loans
- US Municipals

#### **Contributed Pricing Data**

- Observable market data contributed by our partner clients
- Data is anonymized and tiered (Solve Tier 1, 2, 3)
- 1mm+ anonymized daily quotes
- 75,000+ unique securities daily across all asset classes
- Real-time Composite pricing available for Bank Loans

#### Delivery

Pricing and parsed data can be accessed via our user-friendly interface in addition to an API or SFTP feed.

### **Municipal Bond 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, EDI supplies 8 years of historical data.

Data elements include:

•	Pri	се

- Bond type
- Callable/puttable flag
- Coupon details
- First coupon date

- Issue date
- Issuer code
- Maturity date
- Original amount

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.



It includes data items such as:

- Yield to Maturity
- Yield to Worst
- Modified Duration
- Effective Duration

- Convexity
- Effective Convexity
- **Option Adjusted Spread**

The file is delivered daily via FTP.

### **Pricing Data**

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

Our Prices Support Team is available on +44 (0) 207 269 8915, 24 hours a day, Monday to Friday and closed on Christmas and New Year's Day.

### End-of-Day Pricing Data

Mark-to-market your positions and settle transactions on a timely basis The End-of-Day Pricing service covers equities, bonds and indices listed on 170 markets worldwide.

> Issuer Name Last

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

Data elements include:

- Ask Ask Size
- Bid
- Bid Size
- Close
- Comment
- Currency
- Exchange
- High

- Security Description
- Security ID
- Security Type
- SEDOL<sup>TM</sup>
- Total Trades
- Traded Value
- Traded Volume
- US Code

- Equity Analytics (WEA)
  - Local Code
- SEDOL<sup>TM</sup>
- ISIN
- US Code
- High

Last Traded Date

- Low Close
- Sector

- 1, 5 & 10 years Comparative Return
- 1 & 5 Years Dividend Growth
- Average Daily Volume over past Week, Month & Year

- MIC Mid Open

ISIN

Low

- Price Date
- Primary Exchange

Market Close Date



#### **Company Overview**

- Issuer Name
- Security Type
- Security Description
- MIC
- Exchange
- Currency
- USD rate

- Shares in Issue
- Issuer Market Capitalisation
- Average Daily Traded Volume for 9 Months
- Average Monthly Volume over 6 Months
- Benchmark Securities
- 1,5 & 10 years Benchmark return
- 1, 5 & 10 years Stock Return

- Average Daily Value over past Week, Month & Year
- 21, 63,100 & 200 days Simple Moving Average
- Highest High Over Last Year, Quarter, Month & Week
- Lowest Low over Last Year, Quarter, Month & Week
- RSI
- 90 Day Volatility
- Value at risk over 1 year (99% & 95% Confidence)
- 12 & 60 months Alpha, Beta, R-squared, Sharpe

The Worldwide Equity Analytics is a new feed of derived equity data which provides clients with high-quality information to efficiently manage and value their portfolio.

The file comprises a customisable set of more than 60 equity derived data fields along with fields from our Securities Reference File and Closing Prices. Data elements include:

### **Adjustment Factors**

Compare historical pricing data with current prices and conduct detailed analysis with either our adjusted closing prices or adjustment factors data feeds.

#### Adjustment Factors Data Feed

One of the principal uses of adjustment factors is to back adjust EOD (end of day) per-share price data so that the price series can be graphed with the effect of any events (bonus, rights, consolidation, etc.) "factored" into the earlier prices. Once adjusted meaningful comparisons 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 price for the 2 for 1 split (factor = 0.5), that happened between the two prices, you can see that security has actually 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 & factor. Further the feed has been designed for you to database the records or apply directly to price series data.

The advantage 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 version 2 of the adjustment factor feed is available now and has three major additions:

Inclusion of Bloomberg codes. FIGI codes have been added which allow clients to crosscheck data sets.



- The fields that were sub-fields in the Detail field of the previous version now have their own 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 higher level groupings of reasons. For example, all dividend reasons begin with "01", with the 3rd character depending on whether it is cash, script or both. This allows greater granularity when deciding to apply or not.

#### FeedFormat\_AF2\_yyyymmdd.xls

The companion XLS file contains both the specifications and the references at time of writing. Most references are available via EDI's 902 feed and are simply included in this companion spreadsheet as a matter of convenience.

### **Real Time and Historical FX Feed**

The Real Time FX Feed service is a partnership between **Exchange Data International (EDI)** and **TraderMade Systems**.

TraderMade are a UK-based company that creates specialist data, charting & research software for the foreign exchange markets. Their award-winning FX research is a cornerstone of the business and is consumed by investment banks and brokers globally.

Through this collaboration, EDI offers Bid/Ask & Mid prices. Rates are comparable to the EBS reference rate feed for a fraction of the cost of other providers.

The Real Time FX feed service is suitable for market participants who are developing their own bespoke trading platform (as used by algorithmic, black box and quantitative FX traders). As a trader, you can use it to analyse current market conditions whilst taking complete control over the process of receiving the data without any intermediary.

#### Live FX Data

EDI/TraderMade Interbank data feed is sourced from Tier-One banks & institutions, it includes 40+ spot currencies plus gold and silver against major currencies.

The feed is delivered via

FIX Protocol – Version 4.4
Binary – pull, long-polling & streaming
JSON – pull, long-polling & streaming
XML - pull, long-polling & streaming
The feed can be delivered over Streamed FIX, Java Binary or JSON.

REST API – is a web-based API using a websocket connection, developers and investors can create custom trading applications, integrate into various platforms, back-test strategies nd build robot trading.

FIX API – Based on FIX Protocol 4.4 designed for real-time, custom institutional interface which can push hundreds of prices updates per second to you.



### Foreign Exchange Rates

We provide foreign exchange rates data for 168 currencies including Euro legacy ones.

Updated hourly the data is available via FTP, API or email. Clients can choose to either take an end-of-day file or two files a day at 6am and 6pm UTC.

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

### Tax Data

### **Cost Basis**

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

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

The service currently covers equities on a global level and soon will also include fixed income instruments.

It calculates and disseminates allocations and ratios to the per-security level for all events that impact on a security cost basis.

Records are disseminated for each issued security and clearly identify the original security, the issued security and all necessary fields to identify the event and handle the cost basis and number of share changes.

Data elements include:

Issuer Name

- Event Type and Description
- Price, Market Value
- Spare

- Listed and Primary exchanges
- Old/New Shares Ratio
- Allocation Factor

- Round
- Old & New Identifiers (ISIN, Local Code, SEDOL<sup>TM)</sup>

In addition, subscribers of the Worldwide Corporate Actions service can easily link back to the corporate actions event using the Event ID field.

We also provide "Rescind" records enabling users to automate the process of reversing or removing the original applied allocation after an event has been cancelled.



### Derivative Data & Short Interest Data

Exchange Data International has a new product offering: Exchange Traded Derivative data. We have focused on exchange traded futures and options where the underlying asset is an Equity, or Index.

### **Derivatives Reference Data**

#### Undertake quick and accurate reference checks

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

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

- Root Code
- Aii
- Contract Size
- Strike Price

Ticker

- Security Description
- Exercise Style

- MIC Code
- Exercise Price

ISIN

Expiry Date

#### Easily determine the underlying asset on which the derivative's price is based.

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

- Security Description
- ISIN /SEDOL<sup>TM</sup>/Ticker
- Primary 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.

### **DerivActions**

#### Efficiently keep track of corporate actions affecting future and option contracts.

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

In addition, 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 our Worldwide Corporate Actions service and therefore covers all corporate action event types. Clients can subscribe to the full universe or customise the feed at an exchange level, root codes or specific underlying trading lines. For example, clients can choose to receive details for OPRA on the following event types only:



#### **Company Overview**

- Subdivision
- Consolidation
- Dividend
- Rights

- Merger
- Take Over
- Tender Offer
- Spin Off/Demerger
- Delisting
  - Bonus
  - Buy Back
  - Name Change

### **Options Analytics Service**

The Options Analytics Service uses daily updates and historical data to provide end-of-day analytics and reference data for U.S. and international exchange-listed options on equities, exchanged traded funds (ETFs), equity indexes and futures. This service can run tests simulation of trading strategies, generate risk and regulatory reports on portfolios of options and underlying securities, perform in depth analysis of options positions. Accounting firms can also use this service to their advantage, to help calculating the amount of dividend equivalent payment and delta test for the IRS Section 871(m).

#### Coverage

- Over 10 million option and future contracts and 10,000 issuers
- Pricing for 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

#### **Delta File Specification**

Field	Description
underlyingISIN	ISIN of underlying security
underlyingSecurityType	Equity, Index, ETF, Futures
underlyingTickerSymbol	e.g. AAPL (stock), SPX (index), ZG(futures), SPY (ETF)
issuerName	Underlying issuer name
EDISeriesCode	e.g. XCBOA1OC2017012027.5
exchangeContractCode	e.g. A17AKC027500
exchangeName	ICE Futures U.S.
currency	Listed currency (e.g. USD)
callPutIndicator	"C" for call and "P" for put
expirationDate	contract expiration date
strike	contract exercise price
exerciseStyle	"A" for American and "E" for European
contractSize	Contract size
date	Pricing date
optionPrice	Options mark price
underlyingPrice	Underlying close price
delta	Option delta



### Futures Contract Data

EDI provides coverage for all core contract specifications (as defined by each market) for 70+ markets. The fields available for each market are detailed on the following pages.

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.

### Short Interest Data

Exchange Data International provides short interest data for a number of global markets. Short interest is a market- sentiment 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, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Netherlands, Poland, Portugal, Spain, Sweden, UK

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

Australia, Canada, Hong Kong, Israel, Thailand, US OTC Equity Reporting market values are: Q = NASDAQ (for NQ TRF) D = ADF O = ORF N = NYSE (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, Korea, Latvia, Lithuania, Luxembourg, Malta, Romania, Slovakia, Slovenia.

#### 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 so that you can comply with SHO regulations governing short selling activities

We aggregate daily threshold securities listings from:

- NASDAQ Stock Market
- New York Stock Exchange
- NYSE MKT
- OTC Markets



NYSE Arca

We clearly identify each listed security by running the consolidated threshold securities listings against our securities database.

### OTC Data

### Swap Curve Data

The Swap Curve Data Service provides clients with a 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 wide range of global currency. Results are expressed as both a zero-coupon yield and the 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 major global markets or as a consolidated file at 4pm ET. Up to 5 years of history is also available.

#### Methodology

We imply yield curves from readily-observable market prices. We select the most liquid instruments 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 boot strapping model.

### Credit Default Swap Data

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 5 & 10-year spreads for over 2000 reference entities, together with a wide range of currency, restructuring clause and tier of debt combinations. Spreads are expressed as the basis point cost of buying protecting on the corresponding CDS. Full term structure curves (with spreads covering 6 months through 30 years) are available at a premium service level.

#### **Delivery Frequency**

CDS data are available on a daily basis, with delivery at approximately 4pm ET. 10 years of history is also available.

#### Methodology

We parse CDS quotes from market communication, typically in the form of indicative quotes emailed from the sell side to the buy side. These data are cleaned for spurious points, such as outliers or stale spreads. Curves



displaying inversion are investigated manually to ensure accuracy. Cleaned data are then averaged into a composite.

### FX Option Volatility Data

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

#### **Data Description**

The FXOption Volatility Data Service supplies daily volatility surfaces for FXoptions, 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 major global markets or as a consolidated file at 4pm ET. Up to 5 years of history is also available.

#### Methodology

We receive market-observable quotes for precious metal and FX options directly from dealer desks. These data are then cleaned for spurious points, such as outliers or stale contributions.

### Swaption Volatility Data

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

#### **Data Description**

The Swaption Volatility Data Service supplies daily normalized volatility cubes for interest rate 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 point 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 4pm ET. Up to 5 years of history is also available. Data are delivered in a flat file via FTP.

#### Methodology

We receive 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 volatilities in order 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.

### Economic Data

### African Financial and Economic Data (AFED)

#### Get an unparalleled overview of all 54 African countries and economic information.

AFED provides definitive financial and economic intelligence on Africa. We aggregate the economic data primarily from local sources and complete it with carefully selected international ones. Available on one platform (<u>www.africadata.com</u>) in a standardised format, the data assists you in research, analytics, thought leadership and collaboration projects.

The data is available under 3 packages:

#### Data Hub

Query any of the available seven datasets individually, produce time series analysis, extract the customised reports and easily commingle datasets.

Financial Public Holidays Calendar	<ul> <li>Economic Data</li> </ul>	<ul> <li>Foreign Exchange Rates</li> </ul>

#### **Country Profile**

Efficiently monitor any of the 54 countries and retrieve relevant data points by focusing on a predefined list of the most pertinent  $\pm$ 3,000 economic data indicators.

Additionally, you gain full access to the economic data held in the database which currently contains more than **50,000** key economic data indicators with data going back prior to the 1940's.

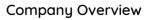
#### Sector Focus

Produce in-depth sector analysis for any of the 15 sectors by gaining direct access to the most relevant indicators from carefully selected sources.

- Agriculture, Fishing & Farming
- Automotive & Transportation
- Building & Construction
- Crime, Defence & Security
- Education

- Employment, Income &
- Poverty
- Energy
- Environment & Infrastructure
- Financial SectorHealth & Pharmaceuticals
- Manufacturing
  - Population
  - Retail
  - Technology, Media & Telecommunication
  - Travel & Tourism

AFED's research team has considerable experience in sourcing hard to find information on Africa and will happily undertake bespoke research projects. We have recently completed tailored projects on Trade, Foreign Direct Investment (FDI) and other specific topics.



# 

### Global Economic Data

The Global Economic Data service is a partnership between EDI and EMED.

EMED, established in 2001, is a leading provider of economic and financial data. The founder of the company has three decades of database experience, with its Asia database first developed in the early 1990s. EMED has more than 1.6 million carefully selected time series. Together with more than 6.7 million trend series and around 300,000 forecast series, the databases comprise approximately 8.6-million-time series, covering more than 200 countries/regions across the globe. Most of the data can be traced back to when they became available.

#### Accurate, Global Databases

There are eight proprietary databases, covering four major regions, members of EuroStat and advanced economies. Data is organized by country and then by broad category, except for the EuroStat database in which comparable data across countries is grouped under categories (from broad to narrow).

- **G7 & Europe** provides comprehensive economic and financial data for Canada, France, Germany, Italy, Japan, Portugal, Spain, United Kingdom, United States and EuroArea. The database has over 124,900 series from primary sources;
- Forecast 101 countries and regions based on the 23 categories of topics, using the TRAMO-SEATS model. The database has over 297,500 forecasted time series or an average of 2,940 series for each country and forecasted data is extended up to the future eight years;
- EuroStat provides comprehensive and comparable data for Europe as a whole under various definitions (e.g., Euro Area, EU15, EU25) as well as for 36 individual countries. The database has over 329,300 series;
- **Emerging Americas** 19 major emerging markets in Latin America, over 74,200 series from primary sources or an average of around 3,900 series for each country;
- Emerging Asia 23 major emerging markets in Asia, over 273,500 series from primary sources or an average of 11,900 series for each country;
- **Emerging CIS** 12 major emerging markets in the Commonwealth of Independent States, over 52,700 series from primary sources or an average of 4,390 series for each country;
- **Emerging EMEA** 39 major emerging markets in Europe, Middle East and Africa, over 207,300 series from primary sources or an average of 5,310 series for each country;
- Emerging Africa 54 major emerging markets in Africa, over 161,000 series from primary sources.

#### Benefit from Timely, Reliable Global Economic Data

The majority of the data is monthly, supplemented by daily, quarterly, semi-annual and annual data, all starting from when they first became available. Updated 24 hours around the clock, our proprietary databases are built upon primary official sources: central banks, statistical offices, finance ministries, stock exchanges, industry associations, and other government and semi-government bodies.

### Economic Indicator Service (EIS)

The Economic Indicator Service (EIS) aims to deliver economic content to financial institutions on both buy and sell side and service providers. This new service currently covers 2229 recurring macro-economic indicators, such as the GDP data, unemployment releases, PMI numbers etc. from 37 countries.

EIS compiles the major economic events from a variety of regions and countries around the globe and provides an Economic Events Data feed and Economic Calendar service to our clients. This service includes all previous historic data on economic indicators that are currently available on EIS's database. GDP data, unemployment releases and PMI numbers will all be included in the recurring events. Depending on availability, information regarding economic indicators, including the details of the issuing agency as well as historical data series can be made accessible for the client.

The following table gives statistics on Economic Indicators by country order:

Country Code	Country	Number of Indicators
AR	Argentina	26
AT	Austria	57
AU	Australia	80
BE	Belgium	39
BR	Brazil	44
CA	Canada	66
СН	Switzerland	40
CN	China	73
DE	Germany	88
ES	Spain	57
EU	Eurozone	96
FR	France	95
GR	Greece	10
ΗK	Hong Kong	59
IE	Ireland	12
IN	India	52
ID	Indonesia	21
IS	Iceland	6
IT	Italy	55
JP	Japan	159
KR	South Korea	104
MX	Mexico	31
MY	Malaysia	39

Country Code	Country	Number of
NL	Netherlands	Indicators 41
NO	Norway	16
NZ	New Zealand	76
PL	Poland	15
PT	Portugal	16
RU	Russia	12
SA	Saudi Arabia	12
SE	Sweden	65
SG	Singapore	70
TH	Thailand	6
TR	Turkey	50
GB	United Kingdom	202
US	United States	305
ZA	South Africa	34
	Total	2229



Key information about EIS:

- Cloud-based service which is delivered via HTML/JavaScript application formats that can then be embedded onto your website using iFrames
- Alternatives methods such as JSON feed for economic calendar are also available that can be integrated onto the company's system
- Live data updated 24/5, immediately after the data has been released
- Historical data includes feed of all previous economic indicators available

EDI will be adding additional countries to the service including Chile, Denmark, Egypt, Finland, Israel, Pakistan and Taiwan.

### **Collective Investments**

### **US Mutual Funds**

Our US Mutual product offers the highest quality reference data, comprehensive corporate actions and dividends data plus a daily pricing feed and for US Mutual funds.

#### **Reference Data**

#### Empowering investors with the highest quality reference data

Access dynamically updated, maintained and detailed information on over 28,000 Mutual Funds, 18,000 Unit Investment Trusts (UITs) and 134 Interval Funds for the US.

#### Facilitate STP

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

#### **Fund Comparisons**

Compare funds with similar characteristics using our 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 really matters to you

Use our powerful search tool to search and select data from over 20+ fields including:

• US Local Code

SEDOI ™

• Tickers

ISIN

Issuer nameCEL code



### Easily crosscheck 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 Ticker (Exchange Level) (Ticker + Exchange Code)

#### Have securities reference data delivered to you simply

Choose to receive EDI's reference data either daily with history via an FTP connection or as a one off ad-hoc feed.

#### Field Coverage - Reference Data

Fields	Description
Issuer ID	Unique ID for the Issuer linking all funds for the issuer
Issuer Name	Name of the Issuer of the Fund
FIGI Exchange Ticker (prev.	Ticker that will combine prices from all possible exchanges and gives
Bloomberg)	you an aggregated feed
FIGI Global ID (prev. Bloomberg)	Now Known as the FIGI
CFI	ISO CFI - Classification of Financial Instruments
Country of Incorporation	ISO country of Incorporation of the company
Country of Register	Country where the fund is registered
Currency	Currency of the fund
Exchange Code	Identifier for the exchange
Fund Description	Security Description
Fund Type	Add some ENUM TYPES (e.g. UCITS, AIFs etc.)
ISIN	ISIN code (global level Identifier)
Issuer ID	Unique ID for the Issuer linking all funds for the issuer
Structure Code	The Legal structure (e.g. OEIC, ICAV, Unit Trust etc)
Listing Country	Country where the fund is listed
Listing Status	Indicates exchange listing status
Local Code	The local security identification code (e.g. WKN, US Local Code etc)
MIC Code	ISO Market Identification Code
Primary Exchange code	Y/N Field
Security ID	Unique ID for the Fund linking al listed funds
Sedol	UK Security identification number
Sedol Registered Country	Register country of the Sedol
US Code	US Local Code (global level Identifier)



#### **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 also has a wealth of experience with over 25 years participation in the corporate actions industry.

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

Use our powerful search tool to search and select corporate actions data including:

- Issuer ID
- US Local Code
- ISIN
- SEDOL<sup>TM</sup>
- Issuer name
- CFI code
- Security ID
- Event ID
- FIGI Composite code
- FIGI code
- FIGI Exchange Ticker
- FIGI Composite Exchange
   Ticker

#### Field Coverage - Corporate Actions

- **Company Meeting:** AGM Date; AGM Time; Meeting Type; Financial Year End Date; Address
- **Bonus:** Record Date; Ex Date; Pay Date; Previous & New Ratio; Fractions; Offered Security Type; Resultant Security ID; Resultant ISIN, SEDOL; Lapsed Premium; Record Date ID & Notes; Registration Date; Priority; Notes
- **Buy Back / Repurchase Offer:** Record Date; Option ID; Serial ID; Type of Payment; Currency; Price Range; Qualifying Quantity Range; Buy Back Pay Date; Quantity Range; Tender Strike Price; Tender Strike Step; Buy Back Starting & Ending Date; Acceptance Quantity Range; Total Percentage of Shares Outstanding range; Record Date ID & Notes; Registration Date; Priority; Notes
- **Consolidation**: Record Date; Ex Date; Pay Date; Currency; Previous & New Par Value; Previous & New Ratio; Fractions; New Code (ISN, US...); New Code Effective Date; Record Date ID & Notes; Registration Date; Priority; Notes
- **Dividend:** Record Date; Ex Date; Pay Dates; Financial Year End Date; Period End Date; Frequency; Marker; Nil Dividend; Option ID; Dividend Type; Currency; Percentage; Gross & Net Dividend; Cancelled Flag; Tax Rate; Previous & New Ratio; Fractions; Depository Fees; Coupon; Rate; Election Date Flag; Resultant Security Type; Resultant Security ID; Resultant ISIN, SEDOL...; Record Date ID & Notes; Registration Date; Priority; Notes
- International Code Change: Effective Date; Previous & New Code (ISIN, US...); Related Event; Related Event ID
- New Listing: Includes all the reference fields common to all events
- Listing Status Change: Notification Date; Effective Date; Related Event; Related Event ID; Reason Static Data Change Events
- **Issuer Name Change:** Effective Name Change Date; Previous & New Name; Related Event; Related Event ID; Legal Name; Notes
- Local Code Change: Effective Date; Previous & New Code; Related Event; Related Event ID



- Return of Capital: Record Date; Effective Date; Currency; Cash Back per Share; Pay Date; Record Date ID & Notes; Registration Date; Priority; Notes
- Security Swap: Record Date; Ex Date; Pay Date; Previous & New Ratio; Fractions; Resultant • Security Type; Resultant Security ID; Resultant ISIN, SEDOL; Record Date ID & Notes; Registration Date; Priority; Notes
- Security Reclassification: Effective Date; Related Event; Related Event ID; Resultant Security • Type; Resultant Security ID; Resultant ISIN, SEDOL Previous & New Ratio; Notes
- Sub Division / Stock Split: Record Date; Ex Date; Pay Date; Previous & New Currency; Previous & New Par Value; Previous & New Ratio; New Code (ISN, US...); New Code Effective Date; Fractions; Record Date ID & Notes; Registration Date; Priority; Notes
- Takeover / Amalgamation: Record Date; Option ID; Serial ID; Payment Type; Fractions; Previous & • New Ratio; Quantity range; Qualifying Quantity Range; Takeover Pay Date; Currency; Price Range; Tender Strike Price; Tender Strike Step; Resultant Security ID; Resultant Security Type; Resultant Identifier Code; Hostile Flag; Takeover Status; Offeror Name; Open & Close Dates; Offeror's Preoffer Quantity & Percentage; Target Quantity & Percentage; Unconditional Date; Compulsory Acquire Balance Date; Acceptance Quantity Range; Mini Takeover Flag; Record Date ID & Notes; Registration Date; Priority; Notes

#### **Pricing Data**

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

Use our end of day pricing data feed to:

- Access closing pricing data gathered from the Nasdag exchange 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 Field Coverage

Field Heading	Description
MIC	Market Identifier Code
Pricefilesymbol	Ticker
lsin	ISIN Identifier of fund
Currency	Currency of Fund
PriceDate	Date of NAV
Open	Open NAV
Close	Price field for NAVs
SecID	Security ID
MktCloseDate	Market Close Date
Volflag	Flag
Issuername	Issuer of the Fund
Sectycd	Security Type Code (MF, UNT etc)
SecurityDesc	Fund Name
Sedol	Sedol code
USCode	US Code
PrimaryExchgCD	Primary Exchange Code
ExchgCD	Exchange Code



### **Outsource 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 5 years.

With this experience we have now broaden our translation facilities to include documents of both financial and legal nature.

We are convinced that having an in-house team of human translators is the best way to provide our customers with the high quality translations they expect.

The team, comprised of 50 translators, is split into several linguistic teams, each working in a specific language pair:

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

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

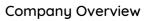
- Financial Statements
- Audit Reports
- Banking Documents
- Annual & Business Reports
- Management Reports
- Employment Contracts
- Shareholder Agreements
- Pleadings
- Arbitation Proceedings
- Service Contracts

### General Outsourcing

EDI has built up infrastructures in India and Morocco, including a workforce skilled in interpreting and analysing financial data from over 120 countries. The company has offices in Mumbai (200 people), Kolkata (10 People), Vellore (110 People), and Agadir (50 People). The offices are fully contingent and have alternative facilities miles from its existing site.

Recently EDI has begun to offer its facilities to third 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's staff are experts in financial data and all processes are fully documented. Procedure manuals are instantly updated to reflect the current situation.



### **Data Sourcing**

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

EDI ensures the breadth and depth of its data is unsurpassed 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:

Italian

- Arabic
- Bosnian .
- . Bulgarian
- Chinese .
- Croatian •
- .
- •

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- Danish Dutch
- Hungarian

Farsi

Finnish

French

Greek

German

- Japanese Korean Latvian . Macedonian
  - Malay
- Spanish

Polish

Portuguese

Romanian

Russian

Slovene

Slovakian

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Turkish .

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Uzbek 

Thai

Vietnamese

- Czech
- Norwegian

- Hebrew
- Indonesian
- - Nepali
    - Swedish

**Data Delivery** 

We support the following delivery formats:

<ul> <li>Tab Separated</li> </ul>	<ul> <li>Fixed Width</li> </ul>	<ul> <li>Variant Length Message Tagged Data – ISO 15022</li> </ul>
Values	<ul> <li>XML</li> </ul>	MT 564 & 568
<ul> <li>CSV</li> </ul>		<ul> <li>Email Notifications</li> </ul>

Files are available to subscribing customers at the end of each business day or 3 times a day through FTP:

Primary: ftp.exchange-data.net Backup: ftp.exchange-data.com

For End-of-Day Prices, files are available throughout the day when the official closing price is released by the exchange.

We also provide customers with full refresh of feeds on request.

For most of our services data is also published online via the web-interface. Each client is given a unique login to access our online services.

Subscribers of the web service also receive daily emails of new announcements for instruments in their portfolios and their selection of events. Note that by default no email is sent out if there is no change affecting their portfolio.

Primary: www.exchange-data.com Backup: www.exchange-data.net

Below is the list of exchanges covered by our service range as per May 2018.

<u>Africa</u>		
Country	Exchange	Exchange Code
Algeria	Algiers Stock Exchange	DZASE
Algeria	Algeria Unlisted Bond	DZBND
Angola	Angola Unlisted Bond	AOBND
Angola	Angola Securities Exchange	AOASE
Benin	Benin Unlisted Bond	BJBND
Botswana	Botswana Stock Exchange	BWBSE
Botswana	Botswana Unlisted Bond	BWBND
Burkina Faso	Burkina Faso Unlisted Bond	BFBND
Burundi	Burundi Unlisted Bond	BIBND
Cameroon	Douala Stock Exchange	CMDSX
Cameroon	Cameroon Unlisted Bond	CMBND
Cape Verde	Cape Verde Stock Exchange	CVCVSX
Cape Verde	Cape Verde Unlisted Bond	CVBND
Central African Republic	Central African Unlisted Bond	CFBND
Chad	Chad Unlisted Bond	TDBND
Congo	Congo Unlisted Bond	CGBND
Egypt	Egyptian Exchange	EGCASE
Egypt	Egypt Unlisted Bond	EGBND
Ethiopia	Ethiopia Unlisted Bond	ETBND
Gabon	Gabon Unlisted Bond	GABND
Gabon	Regional Stock Exchange of Central Africa	GABVCA
Gambia	Gambia Unlisted Bond	GMBND
Ghana	Ghana Stock Exchange	GHGSE
Ghana	Ghana Unlisted Bond	GHBND
Guinea	Guinea Unlisted Bond	GNBND
Guinea-Bissau	Guinea-Bissau Unlisted Bond	GWBND
Ivory Coast	Regional Stock Exchange of West Africa	CIBVA
Ivory Coast	Ivory Coast Unlisted Bond	CIBND
Kenya	Nairobi Securities Exchange	KENSE
Kenya	Kenya Unlisted Bond	KEBND
Lesotho	Lesotho Unlisted Bond	LSBND
Lesotho	Maseru Securities Market	LSMSM
Libya	Libyan Stock Market	LYLSM
Madagascar	Madagascar Unlisted Bond	MGBND
Malawi	Malawi Stock Exchange	MWMSE
Malawi	Malawi Unlisted Bond	MWBND
Mali	Mali Unlisted Bond	MLBND

# EDI

#### Company Overview

Country	Exchange	Exchange Code
Mauritania	Mauritania Unlisted Bond	MRBND
Mauritius	Stock Exchange of Mauritius	MUSEM
Mauritius	Mauritius Unlisted Bond	MUBND
Morocco	Casablanca Stock Exchange	MABVC
Morocco	Morocco Unlisted Bond	MABND
Mozambique	Mozambique Unlisted Bond	MZBND
Mozambique	Mozambique Stock Exchange	MZMSX
Namibia	Namibian Stock Exchange	NANSE
Namibia	Namibia Unlisted Bond	NABND
Niger	Niger Unlisted Bond	NEBND
Nigeria	Nigerian Stock Exchange	NGLSE
Nigeria	Nigeria Unlisted Bond	NGBND
Rwanda	Rwanda Over The Counter Exchange	RWOTC
Rwanda	Rwanda Unlisted Bond	RWBND
Rwanda	Rwanda Stock Exchange	RWRSE
Senegal	Senegal Unlisted Bond	SNBND
Seychelles	Seychelles Unlisted Bond	SCBND
Seychelles	Seychelles Securities Exchange	SCSSE
Sierra Leone	Sierra Leone Unlisted Bond	SLBND
South Africa	Johannesburg Stock Exchange	ZAJSE
South Africa	South Africa Unlisted Bond	ZABND
South Africa*	JSE Commodity Derivatives Market	XSFA
South Africa*	JSE Equity Derivatives Market	XSAF
South Africa*	JSE Interest Rate Derivatives Market	YLDX
Swaziland	Swaziland Stock Exchange	SZSS
Swaziland	Swaziland Unlisted Bond	SZBND
Tanzania	Dar es Salaam Stock Exchange	TZTSE
Tanzania	Tanzania Unlisted Bond	TZBND
Тодо	Togo Unlisted Bond	TGBND
Tunisia	Tunis Stock Exchange	TNTSE
Tunisia	Tunisia Unlisted Bond	TNBND
Uganda	Uganda Securities Exchange	UGKSE
Uganda	Uganda Unlisted Bond	UGBND
Zambia	Lusaka Stock Exchange	ZMZSE
Zambia	Zambia Unlisted Bond	ZMBND
Zimbabwe	Zimbabwe Stock Exchange	ZWZSE
Zimbabwe	Zimbabwe Unlisted Bond	ZWBND

#### Company Overview

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Country	Exchange	Exchange Code
Bangladesh	Dhaka Stock Exchange	BDDSE
Bangladesh	Chittagong Stock Exchange	BDCSE
Bangladesh	Bangladesh Unlisted Bond	BDBND
Bhutan	Royal Securities Exchange of Bhutan	BTRSEB
Brunei Darussalam	Brunei Unlisted Bond	BNBND
Cambodia	Cambodia Securities Exchange	KHCSX
China	Shenzhen Stock Exchange	CNSSE
China	Shanghai Stock Exchange	CNSGSE
China	China Unlisted Bond	CNBND
China	Inter-Bank Bond Market	CNIBBM
China	Shanghai Hong Kong Stock Connect - Northbound	CNSGHK
China	Shenzhen Hong Kong Stock Connect - Northbound	CNSZHK
China	Dalian Commodity Exchange	XDCE
China	Shanghai Futures Exchange	XSGE
Hong Kong	Hong Kong Stock Exchange	HKSEHK
Hong Kong	Hong Kong Unlisted Bond	HKBND
Hong Kong	Hong Kong Shanghai Stock Connect -Southbound	HKHKSG
Hong Kong	Hong Kong Shenzhen Stock Connect - Southbound	HKHKSZ
Hong Kong	Hong Kong Futures Exchange Ltd.	XHKF
India	BSE Ltd.	INBSE
India	National Stock Exchange of India	INNSE
India	India Unlisted Bond	INBND
India	Reserve Bank of India	INRBI
India	Metropolitan Stock Exchange of India	INMCX
India	BSE Ltd	XBOM
India	Multi Commodity Exchange of India Ltd.	XIMC
India	National Stock Exchange of India	XNSE
Indonesia	Indonesian Stock Exchange	IDJSE
Indonesia	Indonesia Unlisted Bond	IDBND
Japan	Tokyo Stock Exchange	JPTSE
Japan	Japan Unlisted Bond	JPBND
Japan	Nagoya Stock Exchange	JPNSE
Japan	Osaka Exchange	XOSE
Kazakhstan	Kazakhstan Stock Exchange	KZKASE
Kazakhstan	Kazakhstan Unlisted Bond	KZBND
Korea (South)	Korea Stock Exchange	KRKSE
Korea (South)	KOSDAQ	KRKSDQ
Korea (South)	Korea Unlisted Bond	KRBND
Korea (South)	Korea New Exchange	KRKNX
Korea	Korea Exchange (Futures Market)	XKFE
Kyrgyz Republic	Kyrgyz Stock Exchange	KGKSE
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Laos	Lao Securities Exchange	LALSX
Malaysia	Malaysian Exchange	MYKLSE
Malaysia	Malaysia Unlisted Bond	MYBND
Malaysia	Labuan International Financial Exchange	MYLFX
Malaysia Maldives	Bursa Malaysia Maldives Unlisted Bond	XKLS MVBND
Vongolia	Mongolian Stock Exchange	MNSE
Vongolia	Mongolia Unlisted Bond	MNBND
-	-	MMYSX
Myanmar	Yangon Stock Exchange	
Myanmar	Myanmar Unlisted Bond	MMBND
Nepal	Nepal Stock Exchange	NPNSE
Nepal	Nepal Unlisted Bond	NPBND
Pakistan	Pakistan Stock Exchange	PKKSE
Pakistan	Pakistan Unlisted Bond	PKBND
Pakistan	The Pakistan Stock Exchange Limited	XKAR
Philippines	Philippine Stock Exchange	PHPSE
Philippines	Philippines Unlisted Bond	PHBND
Singapore	Singapore Exchange	SGSSE
Singapore	Singapore Unlisted Bond	SGBND
Singapore	ICE Futures Singapore	IFSG
Singapore	Singapore Exchange	XSES
Singapore	Singapore Commodity Exchange	XSCE
Sri Lanka	Colombo Stock Exchange	LKCSE
Sri Lanka	Sri Lanka Unlisted Bond	LKBND
Taiwan	Taiwan Stock Exchange	TWTSE
Taiwan	Taipei Exchange	TWOTC
Taiwan	Taiwan Unlisted Bond	TWBND
Taiwan	Taiwan Futures Exchange	XTAF
Tajikistan	Tajikistan Unlisted Bond	TJBND
Tajikistan	Centra Asian Stock Exchange	TJCASE
Thailand	Stock Exchange of Thailand	THSET
Thailand	Thailand Unlisted Bond	THBND
Thailand	Thailand Futures Exchange	TFEX
Jzbekistan	Uzbekistan Unlisted Bond	UZBND
Uzbekistan	Tashkent Republican Stock Exchange	UZTRSX
Vietnam		
	Hochiminh Stock Exchange	VNSTC
Vietnam	Hanoi Stock Exchange	VNHSTC
Vietnam	Vietnam Unlisted Bond	VNBND

Europe

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·	Finland	Nordic Derivatives Exchange - Finland	FINDX
France Euronext Paris FRPEN	Finland	Nasdaq Helsinki Ltd	XHEL
	France	Euronext Paris	FRPEN
FranceFrance Unlisted BondFRBND	France	France Unlisted Bond	FRBND

Country	Exchange	Exchange Code
France	Euronext - Euronext Paris	XPAR
Georgia	Georgian Stock Exchange	GEGSE
Georgia	Georgia Unlisted Bond	GEBND
Germany	Frankfurt Stock Exchange	DEFSX
Germany	Berlin Stock Exchange	DEBSE
Germany	Duesseldorf Stock Exchange	DEDSE
Germany	Hamburg Stock Exchange	DEHSE
Germany	Munich Stock Exchange	DEMSE
Germany	Stuttgart Stock Exchange	DESSE
Germany	Hanover Stock Exchange	DEHNSE
Germany	Certificate Stock Exchange in Frankfurt	DESCH
Germany	Germany Unlisted Bond	DEBND
Germany	Xetra	DEXETR
Germany	Deutsche Boerse AG	XFRA
Germany	EUREX Zurich	EUCH
Germany	EUREX Deutschland	XEUR
Germany	European Energy Exchange	XEEE
Germany	European Energy Exchange - Non-Mtf Market	XEEO
Germany	European Energy Exchange - Regulated Market	XEER
Gibraltar	Gibraltar Stock Exchange	GIGSX
Greece	Athens Exchange	GRASE
Greece	Greece Unlisted Bond	GRBND
Greece	Athens Exchange S.A. Derivatives Market	XADE
Hungary	Budapest Stock Exchange	HUBSE
Hungary	Hungary Unlisted Bond	HUBND
Hungary	Budapest Stock Exchange	XBUD
Iceland	Nasdaq Nordic Iceland	ISISE
Iceland	Iceland Unlisted Bond	ISBND
Iceland	NASDAQ ICELAND HF	XICE
Ireland	Euronext Dublin	IEISE
Ireland	Ireland Unlisted Bond	IEBND
Italy	Italian Exchange	ITMSE
Italy	Italy Unlisted Bond	ITBND
Italy	Borsa Italiana S.P.A.	XMIL
Italy	Securitised Derivatives Market	SEDX
Italy	Italian Derivatives Market	XDMI
Jersey	Jersey Unlisted Bond	JEBND

Country	Exchange	Exchange Code
Latvia	Latvia Unlisted Bond	LVBND
Liechtenstein	Liechtenstein Unlisted Bond	LIBND
Lithuania	Nasdaq Baltic Vilnius	LTNSE
Lithuania	Lithuania Unlisted Bond	LTBND
Luxembourg	Luxembourg Stock Exchange	LULSE
Luxembourg	Luxembourg Unlisted	LUUL
Luxembourg	Luxembourg Unlisted Bond	LUBND
Macedonia	Macedonian Stock Exchange	MKMSE
Macedonia	Macedonia Unlisted Bond	MKBND
Malta	Malta Stock Exchange	MTMSE
Malta	Malta Unlisted Bond	MTBND
Moldova	Moldova Stock Exchange	MDMSE
Moldova	Moldova Unlisted Bond	MDBND
Montenegro	Montenegro Stock Exchange	MEMSE
Netherlands	Euronext Amsterdam	NLENA
Netherlands	Netherlands Unlisted Bond	NLBND
Netherlands	Euronext – Euronext Amsterdam	XAMS
Netherlands	Euronext Com, Commodities Futures and Options	XEUC
Netherlands	Euronext EQF, Equities and Indices Derivatives	XEUE
Netherlands	ICE Endex Futures	NDEX
Norway	Oslo Bors	NOOB
Norway	Oslo Bors ASA	XOSL
Norway	Norway Unlisted Bond	NOBND
Norway	Nordic Derivatives Exchange - Norway	NONDX
Norway	Norwegian Securities Dealers Association	NOOTC
Poland	Warsaw Stock Exchange	PLWSE
Poland	Poland Over the Counter Stock Exchange	PLOTC
Poland	Poland Unlisted Bond	PLBND
Poland	Warsaw Stock Exchange/Financial Derivatives	WDER
Poland	Warsaw Stock Exchange/Equities/Main Market	XWAR
Portugal	Euronext Lisbon	PTBVL
Portugal	Portugal Unlisted Bond	PTBND
Portugal	Euronext - Mercado De Futuros E Opç es	MFOX
Romania	Bucharest Stock Exchange	ROBSE
Romania	Romania Unlisted Bond	ROBND
Russia	Russian Trading System	RURTS
Russia	Moscow Exchange MICEX-RTS	RUMICX
Russia	Russia Unlisted Bond	RUBND

Country	Exchange	Exchange Code
Russia	St. Petersburg Currency Exchange	RUSPCE
Russia	Moscow Exchange	MISX
Russia	Moscow Exchange-Derivatives and Classica Market	RTSX
Serbia	Belgrade Stock Exchange	RSBEL
Serbia	Serbia Unlisted Bond	RSBND
Slovak Republic	Bratislava Stock Exchange	SKBSE
Slovak Republic	Slovak Unlisted Bond	SKBND
Slovenia	Ljubljana Stock Exchange	SILSE
Slovenia	Slovenia Unlisted Bond	SIBND
Spain	Madrid Stock Exchange	ESMSE
Spain	Barcelona Stock Exchange	ESBSE
Spain	Valencia Stock Exchange	ESVSE
Spain	Bilbao Stock Exchange	ESBBSE
Spain	Spanish Stock Exchange Interconnection System	ESSIBE
Spain	AIAF - Fixed Income Market	ESAIAF
Spain	Spain Unlisted Bond	ESBND
Spain	Mercardo Alternativo Bursatil	ESMAB
Spain	Meff Financial Derivatives	XMRV
Sweden	Nasdaq Nordic Stockholm	SESSE
Sweden	Nordic Growth Market	SENGM
Sweden	Sweden Unlisted Bond	SEBND
Sweden	Nordic Derivatives Exchange - Sweden	SENDX
Sweden	Nasdaq Stockholm AB	XSTO
Sweden	Nordic Derivatives Exchange	XNDX
Switzerland	Six Swiss Exchange	CHSSX
Switzerland	Switzerland Unlisted Bond	CHBND
Switzerland	SIX Structured Products Exchange	CHSCH
Switzerland	Bern Exchange	CHBRN
Switzerland	Six Swiss Exchange	XSWX
Ukraine	PFTS Stock Exchange	UAPFTS
Ukraine	Ukraine Unlisted Bond	UABND
Ukraine	Ukrainian Exchange	UAUX
Ukraine	Kiev International Stock Exchange	UAKISE
Ukraine	Perspektiva Stock Exchange	UAPSX
Ukraine	Innex Stock Exchange	UAINX
United Kingdom	Euronext – Euronext London	XLDN
United Kingdom	ICE Futures Europe	IFEU
United Kingdom	London Stock Exchange	GBLSE



Country	Exchange	Exchange Code
United Kingdom	NEX Exchange	GBOFX
United Kingdom	UK Unit Trust Exchange	GBUT
United Kingdom	UK Unlisted Bond	GBBND
United Kingdom	Euronext London	GBENLN

### Company Overview

#### Latin America & the Caribbean

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BahamasBahamas Unlisted BondBSBNDBarbadosBarbados Stock ExchangeBBSEBBarbadosBarbados Unlisted BondBBNDBelizeBelize Unlisted BondBZNDBoliviaBolivia Stock ExchangeBOBVBBoliviaBolivia Unlisted BondBOBNDBrazilB3 S.A Securities, Commodities and Futures ExchangeBRBVSPBrazilB3 S.A Bolsa de Valores, Mercadorias e FuturosBVMFBrazilBrazil Unlisted BondBRBNDCayman IslandsCayman Islands Stock ExchangeKYSXCayman IslandsCayman Islands Stock ExchangeCLBECChileChilean Electronic ExchangeCLBECChileChilean Electronic ExchangeCLBCSChileColombia Stock ExchangeCCSXColombiaColombia Stock ExchangeCOSXColombiaColombia Stock ExchangeCOSSXColombiaColombia Unlisted BondCOSNCosta RicaNational Stock ExchangeCWDCSECuracaoDutch Caribbean Securities ExchangeCWDCSECuracaoDutch Caribbean Securities ExchangeCOSSDominican RepublicDominican Republic Stock ExchangeDORNSXDominican RepublicDominican Republic Stock ExchangeECGSEEcuadorGuayaquil Stock ExchangeECGSEEcuadorEl Salvador Stock ExchangeECGSEEcuadorEl Salvador Stock ExchangeSVMVSVEl SalvadorEl Salvador Unlisted BondSVMVSVEl SalvadorEl Salvador	Argentina	Mercado A Termino De Buenos Aires S.A.	XMTB
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BarbadosBarbados Unlisted BondBBBNDBelizeBelize Unlisted BondBCBNDBoliviaBolivian Stock ExchangeBOBNDBoliviaBolivia Unlisted BondBOBNDBrazilB3 S.A Securities, Commodities and Futures ExchangeBRBNSPBrazilB3 S.A Bolsa de Valores, Mercadorias e FuturosBVMFBrazilBrazil Unlisted BondKYSXCayman IslandsCayman Islands Stock ExchangeKYSNChileCayman Island Unlisted BondKYBNDChileChilean Electronic ExchangeCLBECChileChilean Electronic ExchangeCLBSCChileColombian Stock ExchangeCLBSCChileColombian Stock ExchangeCOCSXColombiaColombian Stock ExchangeCOSNCotaracaNational Stock ExchangeCOBNDCotaracaCosta RicaCosta RicaCRBNVCuracaoDutch Caribbean Securities ExchangeCWBNDCuracaoDutch Caribbean Securities ExchangeCWBNDCuracaoDutinican Republic Stock ExchangeCOSSCuracaoGuayaquil Stock ExchangeCOSSCuracaoQuito Stock ExchangeECGSEEcuadorEcuador Unlisted BondECOSEEcuadorGuito Stock ExchangeECOSEEcuadorEcuador Unlisted BondCWBNDEcuadorEcuador Unlisted BondECOSEEcuadorGuito Stock ExchangeECOSEEcuadorEcuador Unlisted BondECOSEEcuadorEl Salvador	Bahamas	Bahamas Unlisted Bond	BSBND
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BoliviaBoliviaBoliviaBrazilB3 S.A Securities, Commodities and Futures ExchangeBRBVSPBrazilB3 S.A Bolsa de Valores, Mercadorias e FuturosBVMFBrazilBrazil Unlisted BondBRBNDCayman IslandsCayman Islands Stock ExchangeKYSXCayman IslandsCayman Islands Stock ExchangeCLBECChileChilean Electronic ExchangeCLBECChileSantiago Stock ExchangeCLBCSChileColombiaCOCSXColombiaColombia Unlisted BondCOSXColombiaColombia Stock ExchangeCOCSXColombiaColombia Unlisted BondCOBNDCotat RicaNational Stock ExchangeCOBNDCosta RicaNational Stock Exchange (Costa Rica)CRBNVCuracaoDutch Caribbean Securities ExchangeCWDCSECuracaoDutch Caribbean Securities ExchangeCWBNDDominican RepublicDominican Republic Unlisted BondCWBNDDominican RepublicOutinsch ExchangeECGSEEuadorQuito Stock ExchangeECGSEEuadorGuayaquil Stock ExchangeECGSEEuadorEuador Unlisted BondECGSEEl Salvador Stock ExchangeSVMVSVEl SalvadorEl Salvador Stock ExchangeSVMVSVEl SalvadorEl Salvador Unlisted BondSVMVSVEl SalvadorEl Salvador Unlisted BondSVMVSVEl SalvadorEl Salvador Unlisted BondSVMVSVEl SalvadorEl Salvador Unlisted BondSVMVSV<	Belize	Belize Unlisted Bond	BZBND
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Costa RicaCosta Rica Unlisted BondCRBNDCuracaoDutch Caribbean Securities ExchangeCWDCSECuracaoCuracao Unlisted BondCWBNDDominican RepublicDominican Republic Stock ExchangeDODRSXDominican RepublicDominican Republic Unlisted BondDOBNDEcuadorGuayaquil Stock ExchangeECQSEEcuadorQuito Stock ExchangeECQSEEcuadorEcuador Unlisted BondECBNDEl SalvadorEl Salvador Stock ExchangeSVMVSVEl SalvadorEl Salvador Stock ExchangeSVMSVEl SalvadorGrenadaGDBNDGrenadaMational Stock Exchange (Guatemala)GDBND	Colombia	Colombia Unlisted Bond	COBND
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Dominican RepublicDominican Republic Stock ExchangeDODRSXDominican RepublicDominican Republic Unlisted BondDOBNDEcuadorGuayaquil Stock ExchangeECGSEEcuadorQuito Stock ExchangeECQSEEcuadorEcuador Unlisted BondSVMVSVEl SalvadorEl Salvador Stock ExchangeSVMVSVGrenadaGrenada Unlisted BondGDBNDGrenadaSvBNDSVBNDGrenadaStalvador Unlisted BondGDBNDBalvadorBislandor Unlisted BondSVBNDGrenadaStalvador Unlisted BondGDBNDBalvadorBislandor Unlisted BondBislandorBalvadorBislandor Unlisted BondBislandorBalvadorBislandor Unlisted BondBislandorBalvadorBislandor Unlisted BondBislandorBalvadorBislandor Unlisted BondBislandorBalvadorBislandorBislandorBalvadorBislandorBislandorBalvadorBislandorBislandorBalvadorBislandorBislandorBalvadorBislandorBislandorBalvadorBislandorBislandorBalvadorBislandor<	Curacao	Dutch Caribbean Securities Exchange	CWDCSE
Dominican RepublicDominican Republic Unlisted BondDOBNDEcuadorGuayaquil Stock ExchangeECGSEEcuadorQuito Stock ExchangeECQSEEcuadorEcuador Unlisted BondECBNDEl SalvadorEl Salvador Stock ExchangeSVMVSVEl SalvadorEl Salvador Unlisted BondSVBNDGrenadaGrenada Unlisted BondGDBNDGuatemalaNational Stock Exchange (Guatemala)GTGSE	Curacao	Curacao Unlisted Bond	CWBND
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EcuadorQuito Stock ExchangeECQSEEcuadorEcuador Unlisted BondECBNDEl SalvadorEl Salvador Stock ExchangeSVMVSVEl SalvadorEl Salvador Unlisted BondSVBNDGrenadaGrenada Unlisted BondGDBNDGuatemalaNational Stock Exchange (Guatemala)GTGSE	Dominican Republic	Dominican Republic Unlisted Bond	DOBND
EcuadorEcuador Unlisted BondECBNDEl SalvadorEl Salvador Stock ExchangeSVMVSVEl SalvadorEl Salvador Unlisted BondSVBNDGrenadaGrenada Unlisted BondGDBNDGuatemalaNational Stock Exchange (Guatemala)GTGSE	Ecuador	Guayaquil Stock Exchange	ECGSE
El SalvadorEl Salvador Stock ExchangeSVMVSVEl SalvadorEl Salvador Unlisted BondSVBNDGrenadaGrenada Unlisted BondGDBNDGuatemalaNational Stock Exchange (Guatemala)GTGSE	Ecuador	Quito Stock Exchange	ECQSE
El SalvadorEl Salvador Unlisted BondSVBNDGrenadaGrenada Unlisted BondGDBNDGuatemalaNational Stock Exchange (Guatemala)GTGSE	Ecuador	Ecuador Unlisted Bond	ECBND
GrenadaGrenada Unlisted BondGDBNDGuatemalaNational Stock Exchange (Guatemala)GTGSE	El Salvador	El Salvador Stock Exchange	SVMVSV
Guatemala     National Stock Exchange (Guatemala)     GTGSE	El Salvador	El Salvador Unlisted Bond	SVBND
	Grenada	Grenada Unlisted Bond	GDBND
Guatemala Guatemala Unlisted Bond GTBND	Guatemala	National Stock Exchange (Guatemala)	GTGSE
	Guatemala	Guatemala Unlisted Bond	GTBND

Country	Exchange	Exchange Code
Guyana	Guyana Unlisted Bond	GYBND
Guyana	Guyana Stock Exchange	GYGSX
Haiti	Haiti Unlisted Bond	HTBND
Haiti	Haitian Stock Exchange	HTHTSE
Honduras	Honduras Unlisted Bond	HNBND
Honduras	Central American Securities Exchange	HNCASE
Jamaica	Jamaica Stock Exchange	JMJSE
Jamaica	Jamaica Unlisted Bond	JMBND
Mexico	Mexican Stock Exchange	MXMSE
Mexico	Mexico Unlisted Bond	MXBND
Mexico	Mercado Mexicano De Derivados	XEMD
Nicaragua	Nicaragua Unlisted Bond	NIBND
Nicaragua	Nicaragua Stock Exchange	NINSX
Panama	Panama Stock Exchange	PABVP
Panama	Panama Unlisted Bond	PABND
Paraguay	Asuncion Stock Exchange	PYBVA
Paraguay	Paraguay Unlisted Bond	PYBND
Peru	Lima Stock Exchange	PEBVL
Peru	Peru Unlisted Bond	PEBND
Puerto Rico	Puerto Rico Unlisted Bond	PRBND
St. Kitts & Nevis	Eastern Caribbean Securities Exchange	KNECSE
Suriname	Suriname Stock Exchange	SRSRSX
Trinidad and Tobago	Trinidad & Tobago Stock Exchange	TTTTSE
Trinidad and Tobago	Trinidad & Tobago Unlisted Bond	TTBND
Uruguay	Montevideo Stock Exchange	UYBVM
Uruguay	Uruguay Unlisted Bond	UYBND
Uruguay	Uruguay Electronic Exchange	UYUEX
Venezuela	Caracas Stock Exchange	VECSE
Venezuela	Venezuela Unlisted Bond	VEBND
Virgin Islands (UK)	Virgin Islands Unlisted Bond	VGBND



Middle East		
Country	Exchange	Exchange Code
Bahrain	Bahrain Bourse	BHBSE
Bahrain	Bahrain Unlisted Bond	BHBND
Iran	Tehran Stock Exchange	IRTSE
Iran	Iran Unlisted Bond	IRBND
Iran	Iran Mercantile Exchange	IMEX
Iraq	Iraq Stock Exchange	IQISX
Iraq	Iraq Unlisted Bond	IQBND
Israel	Tel-Aviv Stock Exchange	ILTSE
Israel	Israel Unlisted Bond	ILBND
Jordan	Amman Stock Exchange	JOASE
Jordan	Jordan Unlisted Bond	JOBND
Kuwait	Kuwait Stock Exchange	KWKSE
Kuwait	Kuwait Unlisted Bond	KWBND
Lebanon	Beirut Stock Exchange	LBBSE
Lebanon	Lebanon Unlisted Bond	LBBND
Oman	Muscat Securities Market	OMMSM
Palestine	Palestine Exchange	PSAFM
Palestine	Palestine Unlisted Bond	PSBND
Qatar	Qatar Exchange	QADSM
Qatar	Qatar Unlisted Bond	QABND
Saudi Arabia	Saudi Stock Exchange	SARSE
Saudi Arabia	Saudi Arabia Unlisted Bond	SABND
Syria	Damascus Securities Exchange	SYDSE
Syria	Syria Unlisted Bond	SYBND
Turkey	Istanbul Stock Exchange	TRIMKB
Turkey	Turkey Unlisted Bond	TRBND
Turkey	Borsa Istanbul - Futures and Options Market	XFNO
United Arab Emirates	Dubai Financial Market	AEDFM
United Arab Emirates	Abu Dhabi Securities Exchange	AEADSM
United Arab Emirates	Nasdaq Dubai	AEDIFX
United Arab Emirates	UAE Unlisted Bond	AEBND
United Arab Emirates	Dubai Gold & Commodities Exchange DMCC	DGCX
United Arab Emirates	Dubai Mercantile Exchange	DUMX
Yemen	Yemen Unlisted Bond	YEBND

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North America		
Country	Exchange	Exchange Code
Bermuda	Bermuda Stock Exchange	BMBSE
Bermuda	Bermuda Unlisted Bond	BMBND
Canada	Toronto Stock Exchange	CATSE
Canada	TSX Venture Exchange	CACVE
Canada	Canada Unlisted Bond	CABND
Canada	Canadian Securities Exchange	CACNQ
Canada	Aequitas NEO Exchange	CANEO
Canada	ICE Futures Canada	IFCA
Canada	The Montreal Exchange / Bourse De Montreal	XMOD
United States of America	NYSE MKT	USAMEX
United States of America	NASDAQ Stock Market	USNASD
United States of America	OTC Markets Group	USOTC
United States of America	New York Stock Exchange	USNYSE
United States of America	NYSE Arca	USPAC
United States of America	US Portal Exchange	USPORT
United States of America	USA Unlisted Bond	USBND
United States of America	FINRA TRACE	USTRCE
United States of America	BATS US Stock Exchange	USBATS
United States of America	Finra OTCBB	USFNBB
United States of America	ICE Futures Europe - Agricultural Products Division	IFLX
United States of America	ICE Futures Europe - Equity Products Division	IFLO
United States of America	ICE Futures Europe - Financial Products Division	IFLL
United States of America	BZX Options Market	BATO
United States of America	Boston Options Exchange (TMX Group)	XBOX
United States of America	NASDAQ OMX BX (BX Options)	XBXO
United States of America	C2 Options Exchange Inc. (CBOE)	C2OX
United States of America	CBOE - Chicago Board Options Exchange	ХСВО
United States of America	Chicago Board of Trade	XCBT
United States of America*	CBOE Futures Exchange	XCBF
United States of America	Chicago Mercantile Exchange (CME)	XCME
United States of America	CME Swaps Markets (CBOT)	CBTS
United States of America	CME Swaps Markets (CME)	CMES
United States of America	EDGA Exchange	EDGA
United States of America	EDGX Exchange	EDGX
United States of America	ICE Futures U.S.	IFUS
United States of America	ICE Endex Derivatives B.V.	NDEX
United States of America	Index and Options Market	XIOM

### Company Overview

United States of America	International Monetary Market	XIMM
United States of America	ISE Gemini Exchange	GMNI
United States of America	ISE Mercury, LLC	MCRY
United States of America	International Securities Exchange, LLC - Equities	XISE
United States of America	Miami International Securities Exchange	XMIO
United States of America	Miax Pearl, LLC	MPRL
United States of America	Minneapolis Grain Exchange	XMGE
United States of America	NASDAQ – All Markets	XNAS
United States of America	NASDAQ Options Market	XNDQ
United States of America	NASDAQ OMX PHLX	XPHL
United States of America	New York Mercantile Exchange	XNYM
United States of America	New York Stock Exchange, Inc.	XNYS
United States of America	NYSE Amex Options	AMXO
United States of America	NYSE Liffe	XNLI
United States of America	NYSE MKT LLC	XASE
United States of America	Onechicago, LLC	XOCH

#### Oceania

Country	Exchange	Exchange Code
Australia	Australian Securities Exchange	AUASX
Australia	National Stock Exchange of Australia	AUNSE
Australia	Australia Unlisted Bond	AUBND
Australia	SIM Venture Securities Exchange	AUSIMV
Australia	Sydney Stock Exchange	AUSSX
Fiji	Fiji Unlisted Bond	FJBND
Fiji	South Pacific Stock Exchange	FJSPSX
New Zealand*	NZX	NZSE
New Zealand	New Zealand Unlisted Bond	NZBND
New Zealand*	New Zealand Futures & Options	NZFX
Papua New Guinea	Papua New Guinea Unlisted Bond	PGBND
Solomon Islands	Solomon Islands Unlisted Bond	SBBND
Tonga	Tonga Unlisted Bond	TOBND

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# **Partners**

























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## Customisation

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

- Delivery-based solutions to complement existing client infrastructure.
- Content provided at the geographical or portfolio holding level.
- Feeds containing particular 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 12AM - 8AM (GMT)

Sunday 11PM-12AM(GMT) Call +44 207 324 0020

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

Customer support is closed 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 time-frame. 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.



## **Contact Information**

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