

TICK HISTORY

FX MATCHING MARKET DATA GUIDE

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About This Document

Tick History offers unparalleled access to historical high frequency data across global asset classes from 1996 with a standardized naming convention based on RIC symbology. Tick History clients are able to effectively manage compliance requirements in today's fluid regulatory environment, perform quantitative research and analytics and employ real-time algorithmic trading strategies in a cost efficient manner.

This guide describes the Matching Offerings subscription available in Tick History.

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Introduction to Matching

Matching was the first electronic CLOB (central limit order books) for spot FX and is one of the world's leading anonymous electronic trade matching service for foreign exchange. It provides executable prices for global Spot currency pairs and FX Swap currency pair runs containing tenors, each ranging from overnight to one year.

Tick History offers the following Matching packages –

- Matching Market Data Standard Spots (FXD3)
- Matching Market Data Forwards
- Matching Prices with Volumes Daily (D5)

Matching Market Data Standard Spots (FXD3)

The package carries executed trades and top-of-book executable quotes for global spots and cross currency pairs sourced from the Matching system with coverage dating back to January 1996. The package however does not carry volume (trade size, bid size, and ask size) data and is offered only as a 'custom' service i.e. there are no venue-by-day files for D3.

Users purchasing the D3 package are also provided access to =D4 RICs (e.g. EUR=D4) which carry "indicative" quotes only.

Where is the data

These are shown on xxx=D3 RICs, for example <EUR=D3>. There are numerous composite displays, the main tile is <D3FX=>. There are regional displays <D3AFX=> for Asia, <D3EFX=> for Europe and <D3NFX=> for the Americas.

When is the data available

Data for Matching Market Data Standard Spots is released with following UTC cycles.

Cycle	Time Zone	Time	Cut-off
U1	UTC	11:30	9:30
U2	UTC	19:30	17:30
U3	UTC	0:00	22:00
U4	UTC	3:00	1:00

Each of the above releases/ cycles carries data up to 2 hours old. In other words, the release at 1130 UTC carries data up until 09:29:59.999 UTC as illustrated in the above table.

Matching Market Forward Data

The package carries executed trades and top-of-book executable quotes for global currency Forwards with tenors ranging from overnight to one year, data sourced from the Matching system with coverage dating back to November 2003. The package however does not carry volume (trade size, bid size, and ask size) data and is offered only as a 'custom' service i.e. there are no venue-by-day files for D3.

Forward Rates on currencies such as AUD, CAD, CHF, EUR, GBP, JPY, RUB, and Euro currency pairs such as EURAUD, EURCAD, EURCHF, EURGBP, EURJPY, etc. are included.

Forward Tiles are of the format – 3 letter ISO Code + “F” + =D3. E.g. AUDF=D3, GBPF=D3.

Cross Forward Tiles are of the format – 3 letter ISO Code of the first currency + 3 letter ISO Code of the second currency + “F” + =D3. E.g. EURAUDF=D3, EURGBPF=D3.

Where is the data

A complete list of D3 Forward chains can be found in the navigation chain <0#D3FORWARDS>. All the forwards against the Euro are available in the chain <0#EURFWDS=D3> whereas the USD forwards are available under <0#USDFWDS=D3>

When is the data available

Similar to the Matching Market Data Standard Spots package, data for Matching Market Forwards is made available via the 4 UTC cycles. Please refer to the above table for the release times.

Matching Prices with Volumes Daily (D5)

This content is offered exclusively as a venue-by-day (FXD5) file, it carries executed trades **with volumes** (expressed in million) and top-of-book executable quotes **with size** (bid size and ask size in million) for global spots and cross currency pairs sourced from the Matching system with coverage dating back to **2006**.

Below are the RICs available in this service.

RIC	Start Date
AUD=D5	20060224
CAD=D5	20060224
CHF=D5	20060224
EUR=D5	20060224
EURGBP=D5	20060224
GBP=D5	20060224
JPY=D5	20060224
ILS=D5	20060526
EURCZK=D5	20070727
EURDKK=D5	20070727
EURNOK=D5	20070727
EURSEK=D5	20070727
NZD=D5	20070727
SGD=D5	20070727
ZAR=D5	20070727
HKD=D5	20080303
AUDNZD=D5	20090506
EURHUF=D5	20090506
EURPLN=D5	20090506
EURRON=D5	20090506
MXN=D5	20090506
THB=D5	20090506
TRYTOM=D5	20090506
AED=D5	20110727

RIC	Start Date
AUDCAD=D5	20110727
AUDJPY=D5	20110727
AUDSGD=D5	20110727
CADJPY=D5	20110727
CNH=D5	20110727
CZK=D5	20110727
DKK=D5	20110727
EURAUD=D5	20110727
EURCAD=D5	20110727
EURCHF=D5	20110727
EURHRK=D5	20110727
EURJPY=D5	20110727
EURMXN=D5	20110727
EURNZD=D5	20110727
EURTRY=D5	20110727
GBPAUD=D5	20110727
GBPCHF=D5	20110727
GBPJPY=D5	20110727
HUF=D5	20110727
NOK=D5	20110727
NOKSEK=D5	20110727
NZDJPY=D5	20110727
PLN=D5	20110727
RUBTOM=D5	20110727
SEK=D5	20110727

Where to get the data

Rolling 30 days daily files can be found in the FXD5 package under 'TRTH Venue by Day' drop down of the UI.

The screenshot shows the DATASCOPE SELECT interface. At the top, there is a search bar with 'DATASCOPE SELECT' and a 'GO' button. Below this, the 'Available Files' section is displayed. A dropdown menu is set to 'TRTH Venue by Day'. A search bar contains 'fxd5'. The results show a package named 'FXD5 - Matching Prices with Volumes Daily (D5) provided by TR' with a description 'Region: Global, Country: Global'. Below the package list, a table of files is shown:

File Name	Frequency	Released Date
FXD5-2019-02-11-NORMALIZEDMMP-Report-1-of-1.csv.gz	Daily	12/02/2019 01:50:00
FXD5-2019-02-11-NORMALIZEDMMP-Data-1-of-1.csv.gz	Daily	12/02/2019 01:50:00

Historical data going back to 2006 is available under FXD5H or the FXD5 consolidated history located under the 'TRTH Venue Consolidated History' drop down of the GUI. The consolidated history file is published daily at 01:50 UTC with current days data.

The screenshot shows the DATASCOPE SELECT interface. At the top, there is a search bar with 'DATASCOPE SELECT' and a 'GO' button. Below this, the 'Available Files' section is displayed. A dropdown menu is set to 'TRTH Venue Consolidated History'. A search bar is empty. The results show a package named 'FXD5H - Consolidated History for FXD5 Venue' with a description 'Region: Global, Country: Global'. Below the package list, a table of files is shown:

File Name	Frequency	Released Date
FXD5H-2006-02-24-to-2019-02-11-NORMALIZEDMMP-Report-1-of-1.csv.gz	Daily	12/02/2019 01:50:00
FXD5H-2006-02-24-to-2019-02-11-NORMALIZEDMMP-Data-1-of-1.csv.gz	Daily	12/02/2019 01:50:00

Please refer to the *Tick History User Guide* and *Tick History REST API User Guide* for instructions on how to pull the VBDs using the API interface.

When is the data available

Files are made available daily at 1:50:00 UTC.

Data field format

Only the relevant data field from the data file is included in the table below.

Field	Data Type	Definition
RIC	TEXT	Reuters Instrument Code; Market-level identifier for instruments and pricing sources.
Domain	TEXT	Identifies the "type" of data being described. This field can be used to distinguish different vehicles for the same RIC (e.g. Market Price and Market By Price).
Date-Time	DATE	Date and time expressed according to ISO 8601, where "Z" appended to the time indicates UTC.
Type	TEXT	Message Type: Trade, Quote, Correction, Auction, Settlement Price, or Market Condition.
Exchange ID	TEXT	For Consolidated Issues - the exchange identifier where the instrument was last traded.
Price	NUMERIC	Last Traded Price.
Volume	NUMERIC	Last Traded Volume.
Market VWAP	NUMERIC	Last exchange derived continuous Volume Average Weighted Price.
Buyer ID	TEXT	Buyer Market Maker Identifier (where applicable).
Bid Price	NUMERIC	Current or Best Bid Price.
Bid Size	NUMERIC	Aggregated volume at the Current or Best Bid Price.
No. Buyers	NUMERIC	Number of market makers at the Current or Best Bid Price.
Seller ID	TEXT	Seller Market Maker Identifier (where applicable).
Ask Price	NUMERIC	Current or Best Ask Price.
Ask Size	NUMERIC	Aggregated volume at the Current or Best Ask Price.
No. Sellers	TEXT	Number of market makers at the Current or Best Ask Price.
Qualifiers	TEXT	Correction and Trade qualifiers or market condition indicator.
Seq. No.	NUMERIC	An exchange derived sequence number associated with the original trade.
Exch Time	DATE	Exchange supplied exchange time (Local or GMT depending on the exchange).
Block Trd	TEXT	Total number of block trades of the day.
PE Ratio	NUMERIC	PE ratio or earnings multiple as adjusted by the last trade or closing price.

Field	Data Type	Definition
Yield	NUMERIC	Dividend Yield as adjusted by the last trade or closing price.
Original Price	NUMERIC	The original price is stored in this field which it is replaced by a cancellation or correction. This will only be used when "Apply Cancellations and corrections" are used.
Original Volume	NUMERIC	The original volume is stored in this field which it is replaced by a cancellation or correction. This will only be used when "Apply Cancellations and corrections" are used.
Original Sequence Number	NUMERIC	Original exchange derived sequence number associated with the trade (applicable to US markets).
Bid Yld	NUMERIC	Current or Best Bid Yield or Primary Active Yield field.
Ask Yld	NUMERIC	Current or Best Ask Yield or Secondary Active Yield field.
ISMA Bid Yld	NUMERIC	ISMA Calculated Bid Yield.
ISMA Ask Yld	NUMERIC	ISMA Calculated Ask Yield.
Duration	NUMERIC	A measurement in years of how long it takes for the price of the bond to be repaid by its internal cash flows.
Mod Duration	NUMERIC	A measurement of change in the value of an bond to a change in interest rates; it determines the effect of a 100 basis point (1%) change in interest rates will have on the price of the bond.
BPV	NUMERIC	Basis Point Value - this is the sensitivity of a price value of a bond to a one basis point shift in the yield to maturity of the bond.
Convexity	NUMERIC	A measure of the curvature in the relationship between the bond price and yield.
Benchmark Spd	NUMERIC	Difference between the government-equivalent bid yield of the bond and the closest maturity government benchmark bond bid yield of the same principal currency.
Swap Spd	NUMERIC	Difference between the bond's native bid yield to maturity and the interest rate swap curve of the same principal currency.
Asset Swp Spd	NUMERIC	Asset swap spread is the basis point margin over or under a reference rate for a bond whose cash flows have been converted from fixed to floating via an interest rate swap.
Swap Point	NUMERIC	Linearly interpolated bid point on the swap curve corresponding to the maturity of the bond.
UpLim Price	NUMERIC	Upper price limit.
LoLim Price	NUMERIC	Lower price limit.
Theo. Price	NUMERIC	The theoretical price.
Conv. Parity	NUMERIC	Price of the convertible divided by the conversion ratio (the number of shares that the convertible can be converted into).

Field	Data Type	Definition
Premium	NUMERIC	Difference between the higher price paid for the bond and the underlying security's face amount at issue.
Bid Imp. Vol	NUMERIC	The expected bid volatility that the market is pricing into the option, where bid volatility is the measure of the rate and magnitude of the change in the underlying instrument's bid price.
Ask Imp. Vol	NUMERIC	The expected ask volatility that the market is pricing into the option, where ask volatility is the measure of the rate and magnitude of the change in the underlying instrument's ask price.
Imp. Vol.	NUMERIC	Expected volatility that the market is pricing into the option, where volatility is the measure of the rate and magnitude of the change in the underlying instrument's price.
Crack	NUMERIC	Lower limit of refining profitability. Applicable to Refinery Netbacks.
Top	NUMERIC	Upper limit of refining profitability, Applicable to Refinery Netbacks.
Freight Pr.	NUMERIC	Freight charges in the refining process.
Offer	NUMERIC	Instrument's offer price for the trading day.
Actual	NUMERIC	Actual Indicator value.
Prior	NUMERIC	Previous Indicator Value.
Revised	NUMERIC	Revised value.
Forecast	NUMERIC	Average Forecast Value.
Frcst High	NUMERIC	Forecast High.
Frcst Low	NUMERIC	Forecast Low.
No. Frcts	NUMERIC	Number of economists forecasting.
Date	DATE	Date of the message.
Bid Tic	NUMERIC	Trend of the bid price relative to the previous changed bid price; ^ indicates that the bid price is higher, while v indicates that the bid price is lower; while a blank field indicates no change.
Tick Dir.	NUMERIC	This indicates the trend of the trade price relative to the previous changed trade price; ^ indicates that the trade price is higher, while v indicates that the trade price is lower; while a blank field indicates no change.
Acc. Volume	NUMERIC	Indicator indicating the dividend payment type.
Turnover	NUMERIC	Daily Turnover (price X volume) - mapped from the FID TURNOVER.
Original Date	DATE	Original date of the trade.

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