



DEUTSCHE BÖRSE¹
GROUP

**Market Data Services:
Unique. Independent. Reliable.**

360T Market Data Services

Swaps Data Feed (SDF)	3
Essential Data Feed (EDF)	5
Precious Metals Data Feed (PMF)	6
Historical Data Feed (HDF)	7
Flows Data Feed (FDF)	8

As a market leading provider of FX Trading capability, 360T has developed Market Data Services which cater to the very specific needs of the FX Market. Our suite of unique data products are designed to be leveraged by market participants in a variety of use cases including the support of essential functions such as price discovery, benchmarking and rate reasonability.

360T has designed data feeds across Spot, Swaps, Forwards, NDFs and Precious Metals where quality, independence and reliability sit central to what is now an industry leading offering.

Delivering real time and historical data via dedicated FIX connections or a number of information venues, 360T can connect to virtually any application software, facilitating streamlined sourcing of market information.



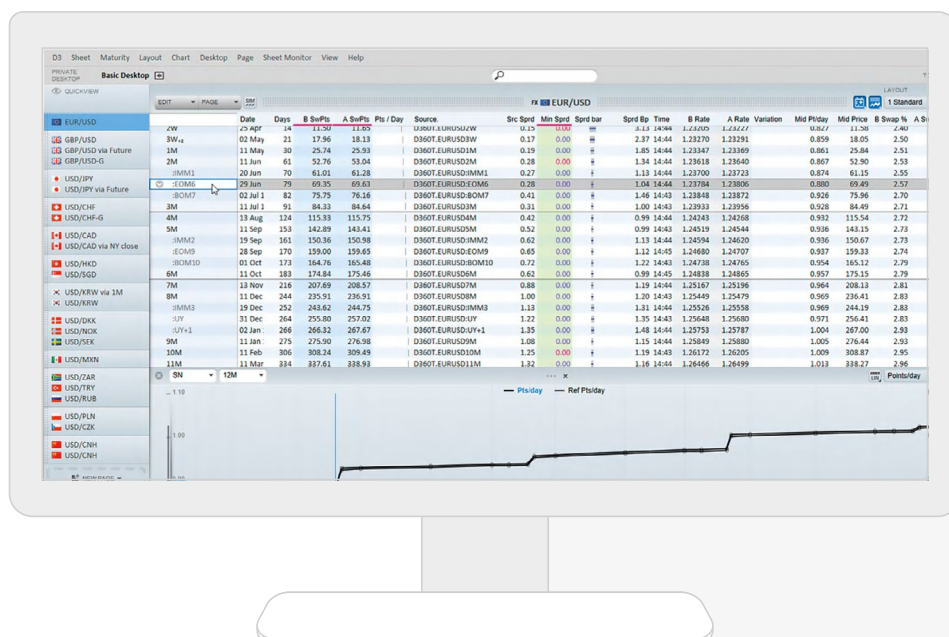
360T Data Solutions

Swaps Data Feed (SDF)

The Swaps Data Feed (SDF), created in partnership with DIGITEC, is an innovative solution to the fundamental challenge of achieving accuracy in the Swaps curve and addresses the need for granular pricing around turn dates and other special dates.

Features

- Streaming Swap Bid/Offer and Mid from O/N up to 10 years
- Independent market data, composed of 20+ contributing banks, including Tier 1 and super-regional specialist banks
- 40+ CCY pairs, across G10, local markets, NDF pairs with all Cross CCY combinations
- Standard tenors, IMM dates, plus turn dates and all major central bank meetings
- Unique ability to request streaming broken dates
- Data quality is assured through a unique set of processes to ensure true reflection of the market Independent market data
- Solid governance and logic - the SDF methodology is transparent, clearly documented and available to all market participants



Benefits

- › Boosting market-making capabilities & evaluation of forward curves
- › Rate reasonability; reference checks against pricing
- › Price discovery
- › Accurately benchmarking trading activity
- › Refining and enhancing trading strategies
- › Supporting best execution mandates
- › Reliable source for effective Transaction Cost Analysis (TCA)
- › Compliance & regulatory off-market controls
- › End of day rates & mark to market valuations
- › Within 360T's Execution Management System (EMS); allows auto-execution of orders within a tolerance to SDF
- › Within 360T's Automated Dealing Suite (ADS); used as a pricing source (within I-TEX) acting as a reference rate at which subsidiaries or internal desks trade against each other

Access & Distribution

- › Standard FIX API, can be easily integrated into existing application software
- › Integrated into 360T systems and workflow solutions (Automated Dealing Suite (ADS), Execution Management System (EMS), etc.)
- › The streaming service is available via the CEF infrastructure of the Deutsche Börse Group (DBG) and its partner data vendors
- › Read only webpage with the option to calculate broken dates and crosses
- › Daily snapshot CSV via SFTP

Essential Data Feed (EDF)

360T's Essential Data Feed (EDF) delivers a comprehensive view of the Spot FX market. Delivering both the calculated Mid and Bid/Ask Spreads in multiple pricing tiers, the EDF is a core part of our award-winning Market Data suite. This real-time Spot data can be categorised into bespoke packages per client requirements.

Features

- › Real time streaming Spot Market Data
- › 60+ CCY pairs
- › Streaming Mid and Bid/Offer spread in tiers of 0.5m, 1m and 5 million
- › Ultra- low latency data sampling
- › Transparent algorithm calculations and data filtering processes
- › Sourced from 360T's global execution platform

Benefits

- › Provides an accurate reflection of the Spot market
- › An effective signal for changing market conditions – illiquid periods, shock events, early warning indicator
- › Enables confident price discovery
- › Delivers real-time Spot Market Data for your front, middle and back office requirements

Access & Distribution

- › Standard FIX API, can be easily integrated into existing application software
- › Integrated into 360T systems and workflow solutions (Automated Dealing Suite (ADS), Execution Management System (EMS), etc.)
- › The streaming service is available via the CEF infrastructure of the Deutsche Börse Group (DBG) and its partner data vendors
- › Daily snapshot CSV via SFTP

Precious Metals Data Feed (PMF)

Leveraging the same technology and design underpinning the award-winning SDF, 360T and DIGITEC's latest market data product, the Precious Metals Data Feed (PMF), provides a live streaming curve for Precious Metals. Shining light on a previously opaque marketplace, the PMF enables market participants to significantly enhance their trading capabilities in Precious Metals.

Features

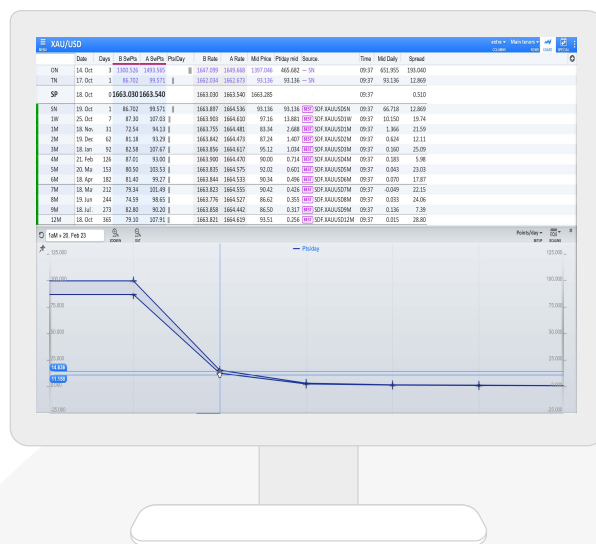
- Streaming Swap Bid/Offer and Mid from O/N to 12 months for XAU/USD, XAG/USD (XPD/USD and XPT/USD pending release)
- Derived from contributing banks' core pricing engines, multiple bank curves are consolidated in one aggregated market view
- Independent & market neutral
- Includes standard tenors, IMM dates, plus turn dates
- Unique ability to request streaming broken dates
- Utilising the same governance structure as the SDF, the PMF methodology is transparent, clearly documented and available to all market participants

Benefits

- Boosts market-making capabilities
- Rate reasonability; reference checks against pricing
- Price discovery
- Accurately benchmarking trading activity
- Refining and enhancing trading strategies
- Meeting best execution mandates
- A reliable source for effective Transaction Cost Analysis (TCA)
- End of day rates & mark to market valuations

Access & Distribution

- Standard FIX API; can be easily integrated into existing application software
- Read-only webpage with the option to calculate broken dates and crosses
- Daily snapshot CSV via SFTP



Historical Data Feed (HDF)

The Historical Data Feed (HDF) allows firms to retrieve and manage historical data. Covering both FX Spot and Swaps, it is a 24/5 data pool that gives an independent view of historical market movements, helping to turn data into information, and information into insight.

Features

- › Independent historic market data source that reflects real market events
- › Composed of captured quotes for FX Spot & Swaps; Spot is sourced from Essential Data Feed (EDF) with quotes captured and stored every second. Swaps are sourced from Swaps Data Feed (SDF), captured & stored every price update
- › Stored quotes from January 2019 onwards
- › 60+ CCY pairs across G10, LM and NDF pairs
- › Standard tenors, turn dates plus IMM and special dates including IMM, EOM and quarterly turn for Swaps plus all major central bank meetings
- › Historical content covers 24/5 activity
- › All rates are filtered and sanitised through algorithm sanity checks, ensuring accuracy and quality

Benefits

- › Analyse transaction costs, to identify long-term trends and correlations, or test pricing models
- › Preparation for external audits
- › Meeting internal compliance and external regulatory requirements

Access & Distribution

The 360T HDF is available within the Deutsche Börse Data Shop.

Flows Data Feed (FDF)

As one of the longest established multidealer trading venues in the FX industry, 360T is uniquely positioned to deliver meaningful insights into market activity. This is done through the daily aggregation of FX Spot and Forward flows from a truly diverse client franchise built over more than 20 years, which includes corporate treasuries, asset managers, hedge funds, commercial and private banks, and across different currency baskets. The Flows Data Feed (FDF) offers information about market flows, volumes and direction, allowing firms to better identify and understand market trends.

Features

- › Shows daily directional flows across 360T
- › Data is provided for four client segments: Banks, Institutions, Corporates & Retail Aggregators
- › Flows are aggregated in a daily snapshot, with a 24 hour delay & include buy/sell volume, tickets & active clients by currency pair
- › Data is aggregated and put through a series of filters and protection mechanisms to ensure complete anonymity

Benefits

- › To refine and improve the ability to detect and generate trading signals
- › More effective FX rate forecasting
- › Enhancing the ability of systematic trading firms to minimize their market impact

Access & Distribution

- › The CSV version is delivered via SFTP at 6pm New York time, 5 days a week
- › The PDF version is available via 360T's analytics suite, 360T Vantage

The Global FX Marketplace

360T is far more than an award-winning multi-bank, multi-asset trading platform for OTC and listed financial instruments. As Deutsche Börse Group's global FX unit, the company offers services across the entire trading workflow of FX and short-term Money Market asset classes to satisfy the needs of Corporate Treasurers, Institutional Asset Managers and Hedge Funds as well as Banks. Beyond optimising execution, 360T allows clients to directly reduce their operational costs and risks in all parts of the trading life cycle while enhancing compliance and transparency at the same time.



Please do not hesitate to contact your local account manager for more information or contact us at info@360t.com · www.360t.com

Europe

Frankfurt

Tel: +49 69 900 289 0

Americas

New York

Tel: +1 212 776 2900

Asia Pacific

Singapore

Tel: +65 6597 1770

Middle East

Dubai

Tel: +971 4 458 7440

South Asia

Mumbai

Tel: +91 22 4077 1437