

**FASTMATCH, INC.
OPERATING PROCEDURES**

EFFECTIVE DATE: March 15th , 2019

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The Operating Procedures shall become effective automatically on the Effective Date set forth above, without further notice.



OPERATING PROCEDURES

1. Overview

FastMatch, Inc. (“FastMatch”) offers its clients a global ECN trading platform (“Platform”) from which to execute transactions in spot-settled foreign exchange and certain spot-settled precious metal products. The Platform operates three separate and distinct matching engines located in New York, London and Tokyo (located at data centers NY4, LD4 and TY3, respectively). Each matching engine emits its own market data, trades, and midpoint values. FastMatch may add additional data centers and matching engines from time to time in its discretion without updating these Operating Procedures, and may also route orders to, or execute transactions on, an ECN trading platform operated by its wholly-owned subsidiary, FastMatch Markets Asia PTE Ltd. (“FastMatch Asia”). Orders placed on the Platform and executed on the Fastmatch Asia ECN trading platform will continue to be governed by these Operating Procedures, except as otherwise agreed to in writing directly with a User.

The Platform does not permit transactions in “swaps,” as defined by the Commodity Futures Trading Commission (“CFTC”). Users must have the ability to effect physical delivery with respect to transactions occurring via the Platform; the transactions occurring on the Platform are not rolled as a matter of course; and any netting will only be done in accordance with a pre-negotiated netting agreement. FastMatch is not responsible for compliance by Users with regulatory obligations applicable to swap dealers or otherwise imposed by rules of the CFTC.

These Operating Procedures are incorporated into the legal agreements between FastMatch and its clients, including participating financial institutions (“PFI’s”; together with trading clients, “Users”). Compliance with these Operating Procedures is required under these legal agreements and is a condition for transacting on the Platform. Different rules and procedures apply to consumers of other FastMatch products and services, including the FX Tape® Rulebook. These Operating Procedures may be amended at any time by FastMatch in accordance with the terms of a User’s legal agreement with FastMatch. Users are responsible for promptly notifying FastMatch by email to support@fastmatchfx.com of any account administrative changes (e.g., changes to corporate name or controlling ownership, updates to contact information or designation of authorized signatories) and completing the documentation reasonably requested by FastMatch to effectuate such changes. *FastMatch may make administrative changes to the terms of these Operating Procedures, such as updating its hours of operation, contact information and website links by posting the updated information on its website or directly notifying Users, without amending these FastMatch Operating Procedures.*

FastMatch reserves the right to restrict or suspend a User’s access to and use of the Platform if FastMatch determines in its sole discretion that a User’s activity fails to conform to these Operating Procedures, or if a User violates the terms of any other agreement with FastMatch or applicable law or regulation.



2. FX Global Code

FastMatch has published its Statement of Commitment to the FX Global Code (https://fastmatch.com/docs/statement_of_commitment.pdf) and has taken appropriate steps to align its operation of the Platform with the principles of the FX Global Code.

3. Hours of Operation

Trading hours for the Platform are from Sunday at 5:30 p.m. Eastern Time to Friday at 5:00 p.m. Eastern Time, with daily maintenance scheduled from 5:00 p.m. Eastern Time to 5:30 p.m. Eastern Time, during which time FIX sessions will be disconnected and the GUI will be inaccessible. The Platform has no trading hours on Christmas Day and New Year's Day, Eastern Time. Please further refer to <http://fastmatch.com/features#trading-hours> for the hours of operation. References to Eastern Time are to New York City local time.

FastMatch's support desk can be reached at +1 (212) 201-7319 or by email to support@fastmatchfx.com from Sunday at 5:30 p.m. Eastern Time to Friday at 5:00 p.m. Eastern Time, excluding Christmas Day and New Year's Day, Eastern Time.

4. Access Methods

Users that access the Platform by way of application program interface ("API") provided by FastMatch will need to complete certification to the API in order to receive production credentials. Users must (i) keep FastMatch fully informed at all times of the identity of each software program or system that directly or indirectly accesses the API, and (ii) only provide access to the API to those software programs and systems that have been previously approved by FastMatch in writing (such approval may be given by e-mail from a FastMatch Operations Manager). Users may also choose to transact on the Platform by GUI.

5. Data Dissemination; Anonymity

FastMatch makes available to its Users market data, consisting of relevant quotes, and also provides each User with post-trade data relevant to its transactions. Users may receive market data via the GUI, API, or user download via web client portal or secure Amazon cloud. Except as otherwise agreed to by the relevant Users (in connection with disclosed bilateral trading), FastMatch discloses party information in aggregated and anonymized form only, and in accordance with FastMatch's agreements with Users. In disclosed bilateral trading, the identities of the counterparties are known.

In connection with its use of the Platform, every User accessing the Platform via API receives an anonymous numeric client identifier for each counterparty with which it executes trades as well as a contra settlement bank code. Liquidity Providers receive an anonymous numeric client identifier of the counterparty before the execution of orders from FastMatch. API clients can request that their assigned unique anonymous numeric client identifier not be shared with liquidity providers. FastMatch shall accommodate such users by utilizing a generic anonymous numeric client identifier.



As part of FastMatch’s suite of product offerings, FastMatch may disseminate market data via the Fastmatch website located at www.fastmatch.com (the “Website”) and also makes historical and real-time market data available to subscribers of market data pursuant to legal agreements with FastMatch. Subscribers of FastMatch’s FX Tape® data product receive FX Tape® data in accordance with their subscription agreements and the FX Tape® Rulebook (<https://tape.fastmatch.com/#>).

6. Order Types

Please visit <http://www.fastmatch.com/features> for a complete description of order types supported by the Platform.

7. Liquidity

FastMatch utilizes a smart order technology function called “Flexible Matching.” For more information, please visit <http://www.fastmatch.com/features#matching-rules> or contact FastMatch’s Liquidity Management group at liquidity@fastmatchfx.com.

Liquidity Types

FastMatch utilizes two types of price liquidity: order driven liquidity and quote driven liquidity. Order driven liquidity resides on the FastMatch book and is executed immediately upon arrival of the opposite side order. Quote driven liquidity is provided by liquidity providers and gives the liquidity provider the ability to choose to fill or reject the order before execution. FastMatch prioritizes order driven liquidity over the quote driven liquidity at the same price.

FastMatch offers Users a choice with regards to liquidity. By default, FastMatch Users are configured to receive both order driven liquidity and quote driven liquidity. *Users can opt out from interacting with quote driven liquidity (for all currency pairs or for select currency pairs) by contacting FastMatch’s Liquidity Management group at liquidity@fastmatchfx.com.*

Liquidity Configuration

Users may interact with a customized set of liquidity, which may be set and changed at FastMatch’s discretion based on several factors, such as: (a) User-defined trading strategy or objective; (b) User-defined counterparty preference; (c) User-defined types of liquidity (i.e. firm only, non-firm only, or both firm and non-firm); (d) User’s access method (i.e. API or GUI); (e) historical market impact; (f) historical bid-offer spreads; and (g) historical acceptance rates.

8. Central Clearing Counterparty

Central Counterparty (“CCP”) refers to one or more intermediary counterparties identified and used by FastMatch to provide central counterparty clearing and settlement services in respect of the User’s transactions on the Platform. For more information, please contact FastMatch Sales at sales@fastmatchfx.com.

9. Market Protections

The Platform contains mechanisms designed to protect Users against excessive quoting and other errors.

Features of the Platform designed to provide additional protections to Users include:

- Fat Finger Check - Rejection of orders exceeding 300 million notional currency.
- Open Order Limit - Rejection of new orders if a User has more than 100 open orders for the same currency pair or precious metal at any given time.
- Disabling Quote Providers - Disabling a quote provider if a provider takes more than the maximum allowed response time; an email notification will automatically be sent.
- Inverted Orders - Two orders will not be matched if the result would be an inverted top of book that is greater than the absolute value of the mid-price of the prevailing currency pair by 0.25% for orders and 0.1% for quotes.
- Pre-trade Open Position Check - Using the Platform's CreditMatch™ application, PFI's, including those PFI's that serve as prime broker to other Users, may manage and monitor their own open positions with other PFI's, and the open positions their prime brokerage Users have entered into through the Platform. PFI's may also use CreditMatch™ to establish and manage trading limits for themselves or their prime brokerage Users. Trading limits are based on Net Daily Settlement Limit ("DSL NET") and/or Net Open Position ("NOP"). CreditMatch™ automatically transmits an email alert to the relevant PFI when open positions reach 70% of the established DSL NET/NOP limit, 90% of established DSL NET/NOP limit and 100% of DSL NET/NOP limit. CreditMatch™ is configured to reject all orders that would breach 100% of either its DSL NET or NOP limits. The CreditMatch™ application is provided to PFI's and users upon request.

Certain features may be configurable at the User's request. Questions on Platform Market Protections should be directed to support@fastmatchfx.com.

10. Material Market Disruption

Where there is a material disruption on the Platform, including malfunctions of the Platform, attempts to commit market abuse, failure by a third party that is required for the Platform, suspension or termination by CCP, an emergency or extraordinary market conditions, or a force majeure event, FastMatch may take such actions it deems necessary to restore the proper operation of the Platform. In the event of a system failure where the Platform experiences a service loss, open orders will be canceled regardless of their TIF (time in force). Orders that were filled but not yet confirmed will be considered filled. Please contact support@fastmatchfx.com regarding any questions.

11. Transaction Review Policy

- a. Categories of Transactions subject to review and FastMatch dispute resolution include Impermissible Transactions and Off-Market Transactions.

Impermissible Transactions

In the event that a User has entered into a transaction and: (i) the counterparty is not an authorized FastMatch User, (ii) as a result of the User entering into such transaction, the User exceeds any applicable credit limit, or (iii) the product and/or currency and/or tenor that is the subject of such transaction is not permitted. In the event FastMatch or a User believes a transaction was an Impermissible Transaction, FastMatch has the right to determine whether the transaction was an Impermissible Transaction, and if so, to cancel the transaction.

Off-Market Transactions

Off-Market Transactions are transactions that are not in line with other prices dealt for trades executed on by other Users at or around the time of the transaction. FastMatch may also reference non-executed prices available on the Platform around the time of the transaction. The prevailing market is determined by FastMatch, in its sole discretion, based on current market conditions. If a User or FastMatch believes a transaction constituted an Off-Market Transaction, either the User or FastMatch may initiate a transaction review pursuant to this Transaction Review Policy.

- b. Initiation of Transaction Review

Transaction Reviews Initiated By Users

Users may submit a request to FastMatch. Each request will be considered on a case-by-case basis and in the sole discretion of FastMatch.

Users must submit requests to review a transaction by contacting FastMatch within 20 minutes of execution of such transaction at +1 (212) 201-7319 or support@fastmatchfx.com, and requesting that the transaction be reviewed pursuant to the Transaction Review Policy. User's review request must include the following information:

- Time of order entry;
- Time of execution;
- Currency pair;
- Notional value;
- Side;
- Price;
- Relevant circumstances.

If a series of transactions are affected, a single request for review submitted to FastMatch identifying all of the series is acceptable.



Requests received more than 20 minutes after execution may be reviewed depending on the facts and circumstances surrounding such request; however, FastMatch reserves the right to decline to review any request not submitted within this time period.

Transaction Reviews Initiated by FastMatch

If FastMatch determines in its sole discretion that circumstances warrant a review of a transaction, FastMatch may initiate a review of such transaction, regardless of whether or not a User has submitted a review request. However, FastMatch is not under any obligation to review any transaction and shall not be liable for any failure to do so.

c. Reviewing and Resolving Disputes

FastMatch will use its good faith efforts to contact each of the counterparties to a transaction under a review initiated by either the User or FastMatch (“Disputed Transaction”). *FastMatch will not review a transaction that has already settled.* FastMatch will use reasonable efforts to protect the anonymity of the parties to a Disputed Transaction, although FastMatch may provide relevant data to each party in its efforts to have the parties to the Disputed Transaction reach a mutually acceptable result.

FastMatch will review relevant information available to it to resolve the Disputed Transaction. For example, if the Disputed Transaction is related to an Off-Market Transaction, FastMatch will review available data to determine the market rate for similar transactions executed at the time of the Disputed Transaction. Among the information that FastMatch may consider are pricing data from the Platform and similar markets, oral interviews with the parties to the Disputed Transaction, and discussion with market professionals not involved in the Disputed Transaction.

FastMatch will use good faith efforts to assist the parties to the Disputed Transaction to arrive at a resolution which is reasonably acceptable to those parties, and to FastMatch’s interest in conducting an orderly market. In the event the parties do not timely agree upon a reasonable resolution, FastMatch may, in its discretion, determine upon the resolution for the Disputed Transaction which is binding upon the parties. Possible resolutions of Disputed Transactions include, but are not limited to, an agreement by the parties to the Disputed Transaction to modify one or more of its terms, or FastMatch’s determination to uphold the Disputed Transaction as executed, or FastMatch’s decision to void the Disputed Transaction.

A final determination will be made by FastMatch in its sole discretion and will be made as soon as reasonably possible. The parties expressly acknowledge and agree to FastMatch’s authority to take such action, and that FastMatch has no liability for acting in accordance with the terms of this Transaction Review Policy. FastMatch will promptly provide e-mail notification of a determination to the parties involved in a Disputed Transaction.

Use of the Platform constitutes acceptance of FastMatch's right to resolve Disputed Transactions in accordance with this Transaction Review Policy.



12. Recording of Conversations

FastMatch may record telephone calls to the FastMatch offices for business purposes. Recorded calls will be identified by announcement, a recurring tone, or similar indication. Parties to recorded conversations will be deemed to have consented to such recordings.

13. Compliance

Users are required to comply with U.S., E.U., and other applicable export control and sanctions laws and regulations at all times and will not be permitted to use the Platform if: (i) any of its owners, directors, workers or employees is a person whose name appears on the list of Specially Designated Nations and Blocked Persons published by the United States Department of Treasury Office of Foreign Assets Control (“OFAC”) (each, an “OFAC-Listed Person), the United Kingdom’s HM Treasury Sanction List, the European Union’s Consolidated Sanctions List, or any other applicable sanctions list; (ii) User or any owner or senior manager of User is a department, agency or instrumentality of, or is otherwise directly or indirectly controlled by or acting for on behalf of the government of any country that is the target of any of the several economic sanction programs administered by OFAC (31 C.F.R. Parts 501 through 598) or any OFAC-Listed Person; or (iii) any of the funds used by User to perform any of its obligations constitute or will constitute funds obtained from or on behalf of any OFAC-Listed Person or any Blocked Person or any other person subject to applicable sanctions.

Each User is required to comply with the U.S. Foreign Corrupt Practices Act, the U.K. Bribery Act and any other anti-bribery or anti-corruption laws existing in the jurisdiction in which such User does business. Each User agrees that it will not, directly or indirectly, offer, pay, solicit, receive or condone any form of a bribe or payment of money or other thing of value to government officials, political parties or party officials, candidates for political office, any other person while knowing that all or a portion of such money or thing of value will be offered, given or promised, directly or indirectly, to any of the aforementioned persons or organizations, or any other person for the purposes of making a bribe, for the purposes of improperly influencing or obtaining an improper advantage in connection with obtaining or retaining business.