

Quality of Execution Report

Currency Derivatives – Swaps, forwards and other currency derivatives

Period covering 1 January 2018 – 31 December 2018

Investment Service - Portfolio Management/Reception and Transmission Professional Clients

Class of Instrument	Currency derivatives - Swaps, forwards, and other currency derivatives				
Notification if < 1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
GOLDMAN SACHS INTERNATIONAL - W22LROWP2IHZNBB6K528	32.61	30.54	0.00	0.00	0.00
WESTPAC BANKING CORPORATION - EN5TNI6CI43VEPAMHL14	22.31	31.38	0.00	0.00	0.00
CITIBANK NA - E57ODZWZ7FF32TWEFA76	16.42	16.04	0.00	0.00	0.00
UBS AG - BFM8T61CT2L1QCEMIK50	8.23	2.27	0.00	0.00	0.00
JPMORGAN CHASE BANK NA - 7H6GLXDRUGQFU57RNE97	6.95	6.82	0.00	0.00	0.00

Note:

- The reporting period covered is from 1 January 2018 to 31 December 2018
- Class of Instrument (Currency Derivatives - Swaps, forwards and other currency derivatives) contains currency swaps, FX forwards, and FX transactions booked as part of a currency swap
- Notification of < 1 average trade per business day in the previous year is indicated with 'Y' for 'Yes' where there was less than 1 trade on average per business day in 2017. 'N' indicates 'No' there was more than 1 trade on average per business day

Investment Service - Order Execution Professional Clients

Class of Instrument	Currency derivatives - Swaps, forwards, and other currency derivatives				
Notification if < 1 average trade per business day in the previous year					
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of Passive orders	Percentage of Aggressive orders	Percentage of Directed orders
JPCB - JPMORGAN CHASE BANK N.A. LONDON BRANCH	100.00	100.00	0.00	100.00	0.00

Note:

- The reporting period covered is from 1 January 2018 to 31 December 2018
- Class of Instrument (Currency Derivatives - Swaps, forwards and other currency derivatives) contains currency swaps, FX forwards, and FX transactions booked as part of a currency swap
- Notification of < 1 average trade per business day in the previous year is indicated with 'Y' for 'Yes' where there was less than 1 trade on average per business day in 2017. 'N' indicates 'No' there was more than 1 trade on average per business day
- As the Percentage of Aggressive orders is 100%, these trades were executed through a broker who is a systematic internalizer (SI). The SI status is a new data point captured for 2018 trades. Any Broker acting as an SI was previously categorized as a broker in 2017, and in 2018 are considered an execution venue

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Portfolio Management / Reception and Transmission

Neuberger Berman Europe Limited (NBEL) has published for each class of financial instrument, that it has either traded in or placed with a counterparty for execution, a summary of its analysis and the conclusions drawn from detailed monitoring of the quality of execution obtained for all client orders during 2018.

The following qualitative information is a summary analysis based on NBEL, and relevant Neuberger Berman group affiliates, detailed ongoing monitoring of execution quality for **Currency Derivatives** including **swaps, forwards and other currency derivatives**.

Requirement	
A. an explanation of the relative importance NBEL and its group affiliates gave to the execution factors of price, costs, speed, likelihood or execution or any other consideration including qualitative factors when assessing the quality of execution;	<p>NBEL's central focus is the best execution for all NBEL clients. The considerations which NBEL will take account of when trading are a combination of the following execution factors:</p> <ul style="list-style-type: none">▪ Price – the spread between the market's mid-price and the executable price shown by the counterparty. The size of the trade is taken into account in order to define the fair bid-offer spread expected.▪ Speed of execution – the speed with which counterparties show an executable price. When timing of execution and defined market levels are prioritized by NBEL, the first available price may be taken, as long as it is within expected tolerance limits.▪ Market impact – the ability of the venue and/or counterparty to absorb the trade without impacting the wider market through information leakage.▪ Consistency – in respect of pricing, speed of execution, reliability (robustness of electronic systems and ability to show competitive prices during times of high market volatility) and the operational aspects of order execution – interaction with middle-office, system and settlement issues as well as connectivity. <p>The relative importance of the execution factors above are variable, depending on market conditions and other considerations. That said, the particular combination of total consideration (price of the instrument and costs of execution, both implicit and explicit) and size are usually the most considered factors when setting our execution strategy. NBEL's goal is always to treat all its clients fairly in achieving the best possible outcome.</p>

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Requirement	
<p>B. description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders;</p>	<p>NBEL and/or any other Neuberger Berman group affiliates do not trade with or have any close links or common ownership with any execution venues or counterparties used to execute orders.</p>
<p>C. a description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or nonmonetary benefits received;</p>	<p>NBEL and/or any other Neuberger Berman group affiliates will not receive payments, discounts or rebates in its currency instrument trading arrangements. Certain non-monetary benefits may be given and/or received by NBEL employees, but in all cases will comply with internal policies which deal with gifts/entertainment, and potential conflict of interest scenarios that may arise as a result.</p>
<p>D. an explanation of the factors that led to a change in the list of execution venues listed in NBEL's execution policy, if such a change occurred;</p>	<p>Having been initially approved, a counterparty will remain on NBEL's approved list of execution brokers and be subject to an ongoing monitoring process. This includes, but is not limited to, an assessment of creditworthiness and financial stability, a review of the execution services provided, and the counterparty's ability to trade effectively on our client's behalf. Each counterparty we use are dependent on their execution capabilities fitting the needs of a specific order, such as liquidity, market impact and certainty of execution. Counterparties will be removed from our list where they are found to be consistently delivering poor execution.</p> <p>During 2018 we have not changed execution venues as the existing ones are considered appropriate for the business. However, during the period, work started in 2017 to add Bloomberg (FX GO) as an additional venue was completed. This was added in order to diversify the risk of reliance on a limited number of execution venues.</p>
<p>E. an explanation of how order execution differs according to client categorisation, where NBEL treats categories of clients differently and where it may affect the order execution arrangements;</p>	<p>All NBEL clients are treated the same, however the efficiency of NBEL's process can be constrained for certain clients by:</p> <ul style="list-style-type: none"> ▪ The availability of counterparties due to limited legal arrangements in place (i.e. ISDA Master Agreements and CSA), which may impact the ability to trade efficiently in block trades on behalf of several accounts. ▪ Counterparty risk limits – where clients require counterparty risk exposure controls, trading could be constrained and mean less flexibility to trade. In some cases, certain trades may be split among several different counterparties in

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Requirement	
	<p>order to limit concentration risk, but this may not provide for best execution.</p> <ul style="list-style-type: none"> ▪ Limited venue and/or counterparty availability – certain clients may limit the ability to transact to certain venues or counterparties. In such cases, any decision to execute or place an order with a particular counterparty or venue will be made from the available set of counterparties/venues for that client.
<p>F. an explanation of whether other criteria were given precedence over immediate price and cost when executing retail client orders and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client;</p>	<p>This is not applicable, as NBEL does not execute retail client orders.</p>
<p>G. an explanation of how NBEL has used any data or tools relating to the quality of execution, including any data published under Delegated Regulation (EU) 2017/575 – RTS27;</p>	<p>NBEL’s trade execution are reviewed as part of the Neuberger Berman Best Execution Committee’s oversight of execution quality. As part of this review, NBEL makes use of a third party independent TCA (Transaction Cost Analysis) provider to help with detailed monitoring of the quality of execution obtained across the counterparties and/or venues where we execute and/or place client orders for execution.</p>
<p>H. where applicable, an explanation of how NBEL has used output of a consolidated tape provider.</p>	<p>This is not applicable, as there are currently no consolidated tape providers in Europe providing this data.</p>

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