

MAINFIRST



# RTS REPORT 2023 | 1

MAINFIRST AFFILIATED  
FUND MANAGERS (DEUTSCHLAND)  
GMBH

2023

Version 1.0

## 1 Summary

### **Execution Quality Summary according to Article 3 (3) of the Commission Delegated Regulation (EU) 2017/576 (“RTS 28”) and Article 65 (6) of the Commission Delegated Regulation (EU) 2017/565**

**Period 01.01.2023 – 31.12.2023**

**Valid for all Instrument Classes MAINFIRST (Asset Management) trades**

The MiFID II regulations<sup>1</sup> require investment firms to publish on an annual basis information about the quality of its execution practices. MAINFIRST Affiliated Fund Managers (Deutschland) GmbH (“MAINFIRST”) wants to give herewith its summary information and conclusions as required by RTS 28, Art 3 (3) and Article 65 (6). The summarized presentation in accordance with MiFID II covers all asset classes that MAINFIRST trades. In addition, for reporting purposes, MAINFIRST also consolidates a review of orders executed indirectly via third parties in 2023.

**(a) Explanation of the relative importance the firm gave to the execution factors of price, costs, speed, likelihood of execution or any other consideration including qualitative factors when assessing the quality of execution:**

MAINFIRST’s Best Execution Policy sets out the approach to provide the best possible result when accepting an order and executing a transaction for Professional Clients as required according to the Markets in Financial Instruments Directive 2014/65/EU, related RTS respective national law and additional guidance by national regulatory bodies (together “MiFID II”).

MAINFIRST has taken during the reporting period all sufficient steps to execute such transactions in financial instruments on terms most favourable to clients on a consistent basis (“Best Execution” or “Best Execution obligation”). Similarly, MAINFIRST has monitored on a regular basis not only the execution quality obtained but also the quality and appropriateness of its execution arrangements and policies on an ex ante and ex post basis to identify circumstances under which changes might have been appropriate.

MAINFIRST has considered the following range of factors to be important to fulfil its Best Execution as follows:

- (1) price and costs;
- (2) speed and likelihood of execution and settlement
- (3) general quality of execution
- (4) size of the transaction
- (5) nature of the transaction

The individual importance of the Best Execution factors may have varied, when executing orders (especially when ISDAs are required).

MAINFIRST had during the reporting period the necessary procedures and arrangements in place as well as an appropriate valuation system. MAINFIRST has routinely taken into account external market data and externally verifiable reference prices (where available) to ensure the fairness of the price for its transactions.

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<sup>1</sup> Markets in Financial Instruments Directive 2014/65/EU (MiFID II) together with the Commission Delegated Regulation (EU) 2017/575 (formerly “RTS 28”) and Article 65 (6) of the Commission Delegated Regulation (EU) 2017/565 (“Article 65 (6)”)

**(b) A description of any close links, conflicts of interests, and common ownerships with respect to any execution venues used to execute orders:**

MAINFIRST acts fully independent. To ensure this, orders are generally executed by the Trading Desk at MAINFIRST Affiliated Fund Managers S.A.

**(c) A description of any specific arrangements with any execution venues regarding payments made or received, discounts, rebates or non-monetary benefits received:**

MAINFIRST operates with every broker on the basis of the counterparty's respective standard terms of business. MAINFIRST does not and did not receive any remuneration, discount or any non-monetary benefit for routing an order to a particular regulated market place, trading venue or broker based on inducement rules as stated in the MAINFIRST GROUP Code of Conduct.

**(d) An explanation of the factors that led to a change in the list of execution venues listed in the firm's execution policy, if such a change occurred:**

When executing a transaction for the client the venue(s) will be chosen by taking into account the following factors in order to obtain the best possible result on a consistent basis:

- (1) Costs
- (2) Performance and likelihood of execution
- (3) Settlement risk
- (4) Infrastructure and operational stability

MAINFIRST has regularly assessed the market landscape to determine whether or not there were alternative execution venues / brokers.

In light of the MiFID II regulation MAINFIRST reviewed in 2023 the access to all important liquidity sources. There have been material changes in the list of Venues and Brokers MAINFIRST is directly connected to: To ensure that regulatory reporting is supported by the counterparts, the broker list was reduced. Still, with its network of various global Brokers MAINFIRST can similarly access all markets and venues to achieve best execution to the benefit of its clients. MAINFIRST has made sure that it is able to access all important liquidity venues under MiFID II in the future.

**(e) An explanation of how order execution differs according to client categorisation, where the firm treats categories of clients differently and where it may affect the order execution arrangements;**

MAINFIRST acts as portfolio manager. All MAINFIRST clients are treated equally in terms of execution arrangements.

- (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;**

N/A – MAINFIRST does not carry out any business with retail clients

- (g) An explanation of how the investment firm has used any data or tools relating to the quality of execution, including any data published under Commission Delegated Regulation (EU) 2017/575 (RTS 27)**

MAINFIRST operates, amongst other systems, a Transaction Cost Analysis (TCA) system to monitor and evaluate the execution quality and broker performance on an ongoing basis. A daily review of orders against their respective benchmarks is conducted, while a committee has oversight on a monthly basis.

- (h) Where applicable, an explanation of how the investment firm has used output of a consolidated tape provider established under Article 65 of Directive 2014/65/EU.**

N/A – there is no consolidated tape established yet.

Table 1 Broker					
Type	Retail				
Class of Instrument	Currency Derivatives: Swaps, Forwards and Other Currency Derivatives				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Broker					
Type	Professional				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
549300ZK53CNGEEI6A29	87.519126	54.705882	36.827957	63.172043	0
SVY0KHTJZBP60K295346	11.716248	43.529412	0	100	0
W22LROWP2IHZNBB6K528	0.544331	0.735294	0	100	0
DZFX	0.11043	0.294118	0	100	0
54930056FHWP7GIWYY08	0.062951	0.588235	50	50	0

Table 3 Broker					
Type	SFT				
Class of Instrument	Currency Derivatives: Swaps, Forwards and Other Currency Derivatives				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Broker					
Type	Retail				
Class of Instrument	Debt Instruments: Bonds				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A



Table 2 Broker					
Type	Professional				
Class of Instrument	Debt Instruments: Bonds				
Notification if <1 average trade per business day in the previous year	Y				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
549300ZK53CNGEEI6A29	12.042112	4.504505	0	100	0
529900HNOAA1KXQJUQ27	11.782862	1.351351	0	100	0
549300FH0WJAPEHTIQ77	8.92708	7.657658	0	82.352941	0
6TJCK1B7E7UTXP528Y04	8.777555	6.306306	0	100	0
8IBZUGJ7JPLH368JE346	7.072789	1.801802	0	100	0

Table 3 Broker					
Type	SFT				
Class of Instrument	Debt Instruments: Bonds				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Broker					
Type	Retail				
Class of Instrument	Debt Instruments: Money Markets				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Broker					
Type	Professional				
Class of Instrument	Debt Instruments: Money Markets				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 3 Broker

Type	SFT				
Class of Instrument	Debt Instruments: Money Markets				
Notification if <1 average trade per business day in the previous year	Y				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
B81CK4ESI35472RHJ606	100	100	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Broker					
Type	Retail				
Class of Instrument	Equities - Shares and Depository Receipts				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Broker					
Type	Professional				
Class of Instrument	Equities - Shares and Depositary Receipts				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
549300ZK53CNGEEI6A29	34.603472	61.30333	8.805432	91.194568	0
FOHUI1NY1AZMJMD8LP67	23.059574	9.241675	62.209711	37.790289	0
529900IOG1ENLW4SUU53	16.22358	0.032518	0	100	0
DZPB	7.857653	0.117066	0	100	0
9695005EOZG9X8IRJD84	6.06934	1.710458	100	0	0

Table 3 Broker					
Type	SFT				
Class of Instrument	Equities - Shares and Depositary Receipts				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A



Table 1 Broker					
Type	Retail				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 1 and 2				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Broker					
Type	Professional				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 1 and 2				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
54930056FHWP7GIWYY08	18.007364	8.57094	28.229426	71.770574	0
9695005EOZG9X8IRJD84	15.070918	3.25311	77.39816	22.60184	0
529900MC68RTGHKI4F05	12.689702	12.944043	0	100	0
5299007QVIQ7IO64NX37	11.135181	11.909546	0	100	0
5493004I3LZM39BWHQ75	9.50646	27.627923	13.909949	86.090051	0

Table 3 Broker					
Type	SFT				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 1 and 2				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Broker					
Type	Retail				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 3 and 4				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Broker					
Type	Professional				
Class of Instrument	Equities - Shares and Depository Receipts: Tick size liquidity bands 3 and 4				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
54930056FHWP7GIWYY08	18.363772	21.659885	57.887288	42.112712	0
549300FH0WJAPEHTIQ77	15.99031	23.435149	58.865501	41.134499	0
5299007QVIQ7IO64NX37	15.192671	9.110417	0	100	0
8IBZUGJ7JPLH368JE346	12.101404	16.191963	56.041308	43.958692	0
9695005EOZG9X8IRJD84	8.09234	1.231815	75.113122	24.886878	0

Table 3 Broker					
Type	SFT				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 3 and 4				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Broker					
Type	Retail				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 5 and 6				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Broker					
Type	Professional				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 5 and 6				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
8IBZUGJ7JPLH368JE346	16.191295	21.715686	54.047714	45.952286	0
9695005EOZG9X8IRJD84	14.602323	6.268743	85.633241	14.366759	0
54930056FHWP7GIWYY08	10.513087	12.538447	48.102721	51.897279	0
529900MC68RTGHKI4F05	10.445095	12.493272	0	100	0
5493004I3LZM39BWHQ75	8.641214	8.904268	21.891192	78.108808	0



Table 3 Broker					
Type	SFT				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 5 and 6				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Broker					
Type	Retail				
Class of Instrument	Equity Derivatives: Futures and Options Admitted to Trading on a Trading Venue				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Broker					
Type	Professional				
Class of Instrument	Equity Derivatives: Futures and Options Admitted to Trading on a Trading Venue				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
549300ZK53CNGEEI6A29	87.789912	86.307692	58.467023	41.532977	0
W22LROWP2IHZNBB6K528	9.167711	3.692308	0	100	0
GSFO	2.116674	8.769231	96.491228	3.508772	0
54930056FHWP7GIWYY08	0.839344	0.461538	0	100	0
SVYOKHTJZBP60K295346	0.086358	0.769231	0	100	0

Table 3 Broker					
Type	SFT				
Class of Instrument	Equity Derivatives: Futures and Options Admitted to Trading on a Trading Venue				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Broker					
Type	Retail				
Class of Instrument	Equity Derivatives: Swaps and Other Equity Derivatives				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Broker					
Type	Professional				
Class of Instrument	Equity Derivatives: Swaps and Other Equity 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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
549300ZK53CNGEEI6A29	83.880614	88.961892	44.165436	55.834564	0
W22LROWP2IHZNBB6K528	10.671844	8.278581	31.746032	68.253968	0
GSFO	5.105305	2.628121	0	100	0
54930056FHWP7GIWYY08	0.342236	0.131406	0	100	0
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 3 Broker					
Type	SFT				
Class of Instrument	Equity Derivatives: Swaps and Other Equity Derivatives				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Broker					
Type	Retail				
Class of Instrument	Exchange Traded Products (Exchange Traded Funds, Exchange Traded Notes and Exchange Traded Commodities)				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A



Table 2 Broker					
Type	Professional				
Class of Instrument	Exchange Traded Products (Exchange Traded Funds, Exchange Traded Notes and Exchange Traded Commodities)				
Notification if <1 average trade per business day in the previous year	Y				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
5299007QVIQ7IO64NX37	53.731195	29.411765	0	100	0
529900UC2OD7II24Z667	33.531136	17.647059	0	100	0
549300FH0WJAPEHTIQ77	12.737669	52.941176	29.62963	70.37037	0
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 3 Broker					
Type	SFT				
Class of Instrument	Exchange Traded Products (Exchange Traded Funds, Exchange Traded Notes and Exchange Traded Commodities)				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Broker					
Type	Retail				
Class of Instrument	Interest Rate Derivatives: Futures and Options Admitted to Trading on a Trading Venue				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Broker					
Type	Professional				
Class of Instrument	Interest Rate Derivatives: Futures and Options Admitted to Trading on a Trading Venue				
Notification if <1 average trade per business day in the previous year	Y				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
549300ZK53CNGEEI6A29	100	100	21.73913	78.26087	0
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 3 Broker					
Type	SFT				
Class of Instrument	Interest Rate Derivatives: Futures and Options Admitted to Trading on a Trading Venue				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Broker					
Type	Retail				
Class of Instrument	Interest Rate Derivatives: Swaps, Forwards and other Interest Rate Derivatives				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Broker					
Type	Professional				
Class of Instrument	Interest Rate Derivatives: Swaps, Forwards and other Interest Rate Derivatives				
Notification if <1 average trade per business day in the previous year	Y				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
LBWO	73.251881	8.791209	0	100	0
549300ZK53CNGEEI6A29	23.405232	70.32967	7.8125	92.1875	0
SVY0KHTJZBP60K295346	3.342887	20.879121	0	100	0
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 3 Broker

Type	SFT				
Class of Instrument	Interest Rate Derivatives: Swaps, Forwards and other Interest Rate Derivatives				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A



Table 1 Broker					
Type	Retail				
Class of Instrument	Structured Finance Instruments				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Broker					
Type	Professional				
Class of Instrument	Structured Finance Instruments				
Notification if <1 average trade per business day in the previous year	Y				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
213800L2NNQOBXPF1425	100	100	0	100	0
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 3 Broker					
Type	SFT				
Class of Instrument	Structured Finance Instruments				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Venue					
Type	Retail				
Class of Instrument	Currency Derivatives: Swaps, Forwards and Other Currency Derivatives				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Venue					
Type	Professional				
Class of Instrument	Currency Derivatives: Swaps, Forwards and Other Currency Derivatives				
Notification if <1 average trade per business day in the previous year	Y				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
FXGO	100	100	0	52.840909	0
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 3 Venue					
Type	SFT				
Class of Instrument	Currency Derivatives: Swaps, Forwards and Other Currency Derivatives				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Venue					
Type	Retail				
Class of Instrument	Debt Instruments: Bonds				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Venue					
Type	Professional				
Class of Instrument	Debt Instruments: Bonds				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BTFE	70.107954	84.245998	0	14.7	0
MANL	29.81136	15.417018	0	37.704918	0
INGB	0.080686	0.336984	0	100	0
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A



Table 3 Venue					
Type	SFT				
Class of Instrument	Debt Instruments: Bonds				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Venue					
Type	Retail				
Class of Instrument	Debt Instruments: Money Markets				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Venue					
Type	Professional				
Class of Instrument	Debt Instruments: Money Markets				
Notification if <1 average trade per business day in the previous year	Y				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BTFE	100	100	N/A	N/A	0
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 3 Venue					
Type	SFT				
Class of Instrument	Debt Instruments: Money Markets				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Venue					
Type	Retail				
Class of Instrument	Equities - Shares and Depositary Receipts				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Venue					
Type	Professional				
Class of Instrument	Equities - Shares and Depositary Receipts				
Notification if <1 average trade per business day in the previous year	Y				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XSWX	100	100	0	100	0
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 3 Venue					
Type	SFT				
Class of Instrument	Equities - Shares and Depositary Receipts				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Venue					
Type	Retail				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 1 and 2				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A



Table 2 Venue					
Type	Professional				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 1 and 2				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BGSI	74.214257	1.665638	0	100	0
XSWX	9.917013	45.280691	45.640327	54.359673	0
CEUO	7.271594	0.308452	0	100	0
JPEU	3.555881	2.652684	2.325581	97.674419	0
XETA	1.686617	17.149907	6.115108	93.884892	0

Table 3 Venue					
Type	SFT				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 1 and 2				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Venue					
Type	Retail				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 3 and 4				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Venue					
Type	Professional				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 3 and 4				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BGSI	74.935193	1.002063	0	100	0
JPEU	10.417447	3.389331	1.73913	98.26087	0
XETA	3.520842	32.861774	11.03139	88.96861	0
CEUO	2.643496	0.11789	0	100	0
CEUX	1.305486	18.449749	7.188498	92.811502	0

Table 3 Venue					
Type	SFT				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 3 and 4				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 1 Venue					
Type	Retail				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 5 and 6				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Venue					
Type	Professional				
Class of Instrument	Equities - Shares and Depository Receipts: Tick size liquidity bands 5 and 6				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
JPEU	35.19768	0.618102	0	100	0
BGSI	18.655436	0.1766	0	100	0
XPAR	8.811983	15.84989	87.18663	12.81337	0
XAMS	7.370448	5.033113	40.350877	59.649123	0
XMIL	6.298765	21.501104	82.956879	17.043121	0

Table 3 Venue					
Type	SFT				
Class of Instrument	Equities - Shares and Depositary Receipts: Tick size liquidity bands 5 and 6				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A



Table 1 Venue					
Type	Retail				
Class of Instrument	Exchange Traded Products (Exchange Traded Funds, Exchange Traded Notes and Exchange Traded Commodities)				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 2 Venue					
Type	Professional				
Class of Instrument	Exchange Traded Products (Exchange Traded Funds, Exchange Traded Notes and Exchange Traded Commodities)				
Notification if <1 average trade per business day in the previous year	Y				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BTFE	100	100	0	100	0
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A

Table 3 Venue					
Type	SFT				
Class of Instrument	Exchange Traded Products (Exchange Traded Funds, Exchange Traded Notes and Exchange Traded Commodities)				
Notification if <1 average trade per business day in the previous year	N/A				
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 a percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A
Name and Venue Identifier (MIC or LEI)	N/A	N/A	N/A	N/A	N/A