

Information on the Top Five Execution Venues

Reporting Period 2022

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1 Aim and purpose

MiFID II requires investment firms that execute or transmit client orders to publish on an annual basis for each class of financial instruments the top five execution venues in terms of trading volumes of client orders in the previous year (Commission Delegated Regulation (EU) 2017/576 / RTS 28).

As a Swiss bank, Zürcher Kantonalbank was not directly subject to these requirements of European supervisory law in the reporting period. Nevertheless, Zürcher Kantonalbank endeavours to comply not only with Swiss requirements but also where possible with these European requirements. It therefore aligned its execution policy also with these requirements. On this basis, Zürcher Kantonalbank publishes this Information on the Top Five Execution Venues.

This document has been carefully compiled by Zürcher Kantonalbank to the best of its knowledge and belief. However, Zürcher Kantonalbank cannot guarantee that the information is accurate and complete and accepts no liability whatsoever for damage resulting from the use of this document. It may change the present Information on the Top Five Execution Venues at any time without prior notice.

2 Information on the quality of execution obtained

a) Explanation of the relative importance of the execution factors	An explanation of the relative importance Zürcher Kantonalbank gave to the execution factors when assessing execution quality can be found in the execution policy.
b) Description of any close links, conflicts of interests, and common ownerships with respect to the relevant execution venues	Explanations regarding conflicts of interest can be found in the corresponding documents of Zürcher Kantonalbank under zkb.ch/interessenkonflikte . Zürcher Kantonalbank together with other financial service providers holds an interest in SIX Group AG, which operates SIX Swiss Exchange. When Zürcher Kantonalbank executes client orders at this execution venue, it takes into account the factors specified in the execution policy, such as price, costs for the client and speed, and their ranking.
c) Description of any specific arrangements with the relevant execution venues regarding payments/rebates made or received	Zürcher Kantonalbank selects the brokers and trading venues in compliance with the legal and regulatory requirements applicable and in consideration of its execution policy. Within this framework, Zürcher Kantonalbank agrees with brokers and execution venues the usual compensation for the respective services. Zürcher Kantonalbank has not entered into any specific arrangements with the relevant execution venues regarding payments or rebates.
d) Explanation of the factors that led to a change of execution venues according to the execution policy	During the reporting period, Zürcher Kantonalbank did not change its execution policy regarding execution venues.

e)	Explanation of how order execution differs according to client categorisation	The execution policy of Zürcher Kantonalbank is aimed equally at private clients and professional clients. Accordingly, Zürcher Kantonalbank takes various criteria into account when prioritising the execution factors. For example, the characteristics of the financial instrument or execution venue or the current market conditions mean that Zürcher Kantonalbank prioritises the execution factors differently.
f)	Explanation of whether other criteria were given precedence over immediate price and cost when executing orders of private clients and how these other criteria were instrumental in delivering the best possible result in terms of the total consideration to the client	Zürcher Kantonalbank generally assigns a higher relative weighting to the factors price and cost in the total consideration than to the other factors. In certain situations, however, it may be appropriate to prioritise other factors more highly in order to obtain an appropriate total consideration. For example, when executing orders in less liquid securities, Zürcher Kantonalbank will weigh not only the price but also the speed and the likelihood of execution higher than the costs.
g)	Explanation of how the investment firm has used any data or tools relating to the quality of execution	Depending on the asset class, own data as well as data from third parties are used for the analysis of the execution quality.

3 Asset class of listed equities

3.1 Top 5 broker for private clients

Class of Instrument	Asset class of listed equities				
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	% of passive orders	% of aggressive orders	% of directed orders
Credit Suisse Sec. London (DL6FFRRLF74S01HE2M14)	35.37%	47.57%	33.56%	66.44%	N/A
BNP Paribas Arbitrage SNC FR (6EWKU0FGVX5QQJHFGT48)	19.84%	17.23%	31.06%	68.94%	N/A
Goldman Sachs International UK (W22LROWP2IHZNBB6K528)	17.53%	10.11%	31.05%	68.95%	N/A
UBS Switzerland AG Zürich (549300WOIFUSNYH0FL22)	8.08%	7.37%	26.88%	73.12%	N/A
Jefferies International Ltd UK (S5THZMDUJCTQZBTRV198)	5.42%	7.79%	3.68%	96.32%	N/A

3.2 Top 5 broker for professional clients

Class of Instrument	Asset class of listed equities				
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	% of passive orders	% of aggressive orders	% of directed orders
Goldman Sachs International UK (W22LROWP2IHZNBB6K528)	22.89%	6.96%	23.63%	76.37%	N/A
UBS (Equities) London (REYPIEJN7XZHSUI0N355)	11.12%	1.18%	0.01%	99.99%	N/A
Jefferies International Ltd UK (S5THZMDUJCTQZBTRV198)	10.44%	38.57%	0.94%	99.06%	N/A
Citigroup Global Markets Ltd UK (XKZZ2JZF41MRHTR1V493)	8.36%	1.48%	0.05%	99.95%	N/A
Credit Suisse Sec. London (DL6FFRRLF74S01HE2M14)	7.98%	5.78%	18.63%	81.37%	N/A

3.3 Top 5 venue report for private clients

Class of Instrument	Asset class of listed equities				
Notification if <1 average trade per business day in the previous year	N				
Top five direct 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	% of passive orders	% of aggressive orders	% of directed orders
SIX Swiss Exchange (XSWX)	99.98%	99.98%	45.65%	54.35%	N/A
BX Swiss (XBRN)	0.02%	0.02%	65.71%	34.29%	N/A

3.4 Top 5 venue report for professional clients

Class of Instrument	Asset class of listed equities				
Notification if <1 average trade per business day in the previous year	N				
Top five direct 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	% of passive orders	% of aggressive orders	% of directed orders
SIX Swiss Exchange (XSWX)	99.97%	99.95%	47.12%	52.88%	N/A
BX Swiss (XBRN)	0.03%	0.05%	91.43%	8.57%	N/A

4 Asset class of non-listed equities

4.1 Top 5 venue report for private clients

Class of Instrument	Asset class of non-listed equities				
Notification if <1 average trade per business day in the previous year	Y				
Top five direct 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	% of passive orders	% of aggressive orders	% of directed orders
Berner Kantonalbank OTC-X (OTXB)	69.25%	75.00%	60.00%	40.00%	N/A
Lienhardt & Partner Privatbank Z	30.75%	25.00%	25.00%	75.00%	N/A

4.2 Top 5 venue report for professional clients

Class of Instrument	Asset class of non-listed equities				
Notification if <1 average trade per business day in the previous year	Y				
Top five direct 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	% of passive orders	% of aggressive orders	% of directed orders
Berner Kantonalbank OTC-X (OTXB)	53.82%	50.00%	00.00%	100.00%	N/A
Lienhardt & Partner Privatbank Z	46.18%	50.00%	00.00%	100.00%	N/A

5 Asset class of exchange traded funds ("ETFs")

5.1 Top 5 broker for private clients

Class of Instrument	Asset class of exchange traded funds				
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	% of passive orders	% of aggressive orders	% of directed orders
Jane Street Financial London (549300ZHEHX8M31RP142)	50.92%	9.40%	N/A	N/A	N/A
Goldman Sachs International UK (W22LROWP2IHZNBB6K528)	16.52%	4.88%	N/A	N/A	N/A
Flow Traders BV (549300CLJI9XDH12XV51)	7.98%	9.60%	N/A	N/A	N/A

DRW Europe B.V. (5493005Q760M4WJ8ZP07)	7.36%	0.93%	N/A	N/A	N/A
HSBC Bank plc UK (MP6I5ZYZBEU3UXPYFY54)	4.16%	3.28%	N/A	N/A	N/A

5.2 Top 5 broker for professional clients

Class of Instrument	Asset class of exchange traded funds
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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	% of passive orders	% of aggressive orders	% of directed orders
Jane Street Financial London (549300ZHEHX8M31RP142)	31.94%	2.85%	N/A	N/A	N/A
Flow Traders BV (549300CLJI9XDH12XV51)	14.62%	2.98%	N/A	N/A	N/A
Optiver VOF (7245009KRY SAYB2QCC29)	7.68%	1.71%	N/A	N/A	N/A
Jefferies International Ltd UK (S5THZMDUJCTQZBTRVI98)	7.32%	53.19%	N/A	N/A	N/A
Goldman Sachs International UK (W22LROWP2IHZNBB6K528)	5.86%	1.78%	N/A	N/A	N/A

5.3 Top 5 venue report for private clients

Class of Instrument	Asset class of exchange traded funds
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Notification if <1 average trade per business day in the previous year N

Top five direct 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	% of passive orders	% of aggressive orders	% of directed orders
Tradeweb LLC (TRWB)	79.12%	40.70%	N/A	N/A	N/A
SIX Swiss Exchange (XSWX)	20.88%	59.30%	N/A	N/A	N/A

5.4 Top 5 venue report for professional clients

Class of Instrument	Asset class of exchange traded funds
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Notification if <1 average trade per business day in the previous year N

Top five direct 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	% of passive orders	% of aggressive orders	% of directed orders
SIX Swiss Exchange (XSWX)	58.62%	88.58%	N/A	N/A	N/A
Tradeweb LLC (TRWB)	41.38%	11.41%	N/A	N/A	N/A

6 Asset class of interest-bearing securities

6.1 Top 5 broker for private clients

Class of Instrument	Asset class of interest-bearing securities
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	% of passive orders	% of aggressive orders	% of directed orders
Zürcher Kantonalbank (165GRDQ39W63PHVONY02)	15.88%	18.41%	N/A	N/A	N/A
Citigroup Global Markets Ltd UK (XKZZ2JZF41MRHTR1V493)	10.13%	4.05%	N/A	N/A	N/A
Bank of Montreal (B) UK (NQQ6HPCNCCU6TUTQYE16)	9.10%	1.44%	N/A	N/A	N/A
UBS AG London (REYPIEJN7XZHSUI0N355)	8.02%	9.67%	N/A	N/A	N/A
Deutsche Bank AG (B) UK (7LTFWZYICNSX8D621K86)	5.33%	4.60%	N/A	N/A	N/A

6.2 Top 5 broker for professional clients

Class of Instrument	Asset class of interest-bearing securities
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	% of passive orders	% of aggressive orders	% of directed orders
Zürcher Kantonalbank (165GRDQ39W63PHVONY02)	17.15%	9.47%	N/A	N/A	N/A
Deutsche Bank AG (B) UK (7LTFWZYICNSX8D621K86)	11.48%	8.01%	N/A	N/A	N/A
UBS AG London (REYPIEJN7XZHSUI0N355)	7.92%	5.00%	N/A	N/A	N/A
BNP Paribas Sec Serv SCA (B) UK (549300WCGB70D06XZ554)	4.76%	5.06%	N/A	N/A	N/A

Citigroup Global Markets Ltd UK (XKZZZJZF41MRHTR1V493)	4.63%	5.90%	N/A	N/A	N/A
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6.3 Top 5 venue report for private clients

Class of Instrument	Asset class of interest-bearing securities				
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Notification if <1 average trade per business day in the previous year N

Top five direct 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	% of passive orders	% of aggressive orders	% of directed orders
Bloomberg Global Markets Services (BGMS)	82.73%	36.24%	N/A	N/A	N/A
SIX Swiss Exchange (XSWX)	8.85%	57.63%	N/A	N/A	N/A
Tradeweb LLC (TRWB)	4.21%	1.96%	N/A	N/A	N/A
MarketAxess Singapore Pte. Ltd (MASG)	4.21%	4.17%	N/A	N/A	N/A

6.4 Top 5 venue report for professional clients

Class of Instrument	Asset class of interest-bearing securities				
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Notification if <1 average trade per business day in the previous year N

Top five direct 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	% of passive orders	% of aggressive orders	% of directed orders
Bloomberg Global Markets Services (BGMS)	84.47%	56.23%	N/A	N/A	N/A
Tradeweb LLC (TRWB)	10.83%	17.33%	N/A	N/A	N/A
MarketAxess Singapore Pte. Ltd (MASG)	3.81%	7.26%	N/A	N/A	N/A
SIX Swiss Exchange (XSWX)	0.89%	19.18%	N/A	N/A	N/A

7 Asset class of exchange-traded derivatives

7.1 Top 5 broker for private clients

Class of Instrument	Asset class of exchange-traded derivatives				
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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	% of passive orders	% of aggressive orders	% of directed orders
UBS Switzerland AG Zürich (549300WOIFUSNYH0FL22)	100%	100%	N/A	N/A	N/A

7.2 Top 5 broker for professional clients

Class of Instrument	Asset class of exchange-traded derivatives
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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	% of passive orders	% of aggressive orders	% of directed orders
UBS Switzerland AG Zürich (549300WOIFUSNYH0FL22)	77.05%	89.64%	N/A	N/A	N/A
JPMorgan Securities Plc UK (K6Q0W1PS1L1O4IQL9C32)	21.13%	9.38%	N/A	N/A	N/A
Banque Pictet and Cie SA Genève (2138008LCT2T4PXE2R9)	0.64%	0.80%	N/A	N/A	N/A
Bank Julius Bär & Co.AG Zürich (PNWU8O0BLT17BBV61Y18)	0.60%	0.05%	N/A	N/A	N/A
Credit Suisse Schweiz AG Zürich (549300506SI9CRFV9Z8)	0.58%	0.12%	N/A	N/A	N/A

7.3 Top 5 venue report for private clients

Class of Instrument	Asset class of exchange-traded derivatives
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Notification if <1 average trade per business day in the previous year

N

Top five direct 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	% of passive orders	% of aggressive orders	% of directed orders
Eurex Frankfurt AG (XEUR)	100%	100%	N/A	N/A	N/A

7.4 Top 5 venue report for professional clients

Class of Instrument	Asset class of exchange-traded derivatives
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Notification if <1 average trade per business day in the previous year

N

Top five direct 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	% of passive orders	% of aggressive orders	% of directed orders
Eurex Frankfurt AG (XEUR)	100%	100%	N/A	N/A	N/A

8 Asset class of structured products

8.1 Top 5 broker for private clients

Class of Instrument	Asset class of structured products
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	% of passive orders	% of aggressive orders	% of directed orders
Citigroup Global Markets Ltd UK (XKZZZJZF41MRHTR1V493)	20.79%	1.41%	N/A	N/A	N/A
Barclays Bank PLC London (G5GSEF7VJP5I7OUK5573)	16.57%	0.48%	N/A	N/A	N/A
Marex Financial (5493003EETVWYSIJ5A20)	10.72%	0.30%	N/A	N/A	N/A
Crédit Agricole C&I Bk CACIB FR (1VUV7VQFKUOQSJ21A208)	9.33%	0.30%	N/A	N/A	N/A
Morgan Stanley & Co Int Plc UK (4PQUHN3JPFGNF3BB653)	8.42%	1.29%	N/A	N/A	N/A

8.2 Top 5 broker for professional clients

Class of Instrument	Asset class of structured products
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	% of passive orders	% of aggressive orders	% of directed orders
Zürcher Kantonalbank (165GRDQ39W63PHVONY02)	85.49%	77.54%	N/A	N/A	N/A
UBS Switzerland AG Zürich (549300WOIFUSNYH0FL22)	3.10%	0.69%	N/A	N/A	N/A
BNP Paribas SA FR (ROMUWSFPU8MPRO8K5P83)	1.84%	5.42%	N/A	N/A	N/A
Baader Bank AG DE (529900JFOPPEDUR61H13)	1.76%	0.60%	N/A	N/A	N/A

Leonteq Securities Zürich (ML61HP3A4MKTTA1ZB671)	1.11%	0.78%	N/A	N/A	N/A
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8.3 Top 5 venue report for private clients

Class of Instrument	Asset class of structured products				
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Notification if <1 average trade per business day in the previous year N

Top five direct 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	% of passive orders	% of aggressive orders	% of directed orders
SIX Swiss Exchange (XSWX)	100%	100%	N/A	N/A	N/A

8.4 Top 5 venue report for professional clients

Class of Instrument	Asset class of structured products				
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Notification if <1 average trade per business day in the previous year N

Top five direct 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	% of passive orders	% of aggressive orders	% of directed orders
SIX Swiss Exchange (XSWX)	100%	100%	N/A	N/A	N/A

9 Asset class of OTC derivatives

Class of Instrument	Asset class of OTC derivatives				
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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	% of passive orders	% of aggressive orders	% of directed orders
Zürcher Kantonalbank (165GRDQ39W63PHVONY02)	100%	100%	N/A	N/A	N/A

10 Asset class of foreign exchange

Class of Instrument	Asset class of foreign exchange				
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	% of passive orders	% of aggressive orders	% of directed orders
Zürcher Kantonalbank (165GRDQ39W63PHVONY02)	100%	100%	N/A	N/A	N/A