

Top 5 Reporting 2023

Retail Clients

Table 1

Class of Instrument	Equities - Shares and Depository Receipts - Tick size liquidity band 1 and 2 (from 0 to 79 trades per day)				
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
GETTEX - Market Maker Munich (MUNC)	67,02	95,46	100,00	0,00	99,63
Berlin - Tradegate Exchange (TGAT)	9,30	1,93	100,00	0,00	99,40
Xetra (XETR)	4,78	0,66	56,26	43,74	91,18
Schweizer Boerse -SIX Swiss Exchange AG (XSWX)	4,02	0,30	21,61	78,39	23,75
Frankfurt (XFRA)	2,03	0,42	100,00	0,00	98,50

Retail Clients

Table 2

Class of Instrument	Equities - Shares and Depository Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)				
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
GETTEX - Market Maker Munich (MUNC)	81,76	97,67	100,00	0,00	99,47
Xetra (XETR)	5,92	0,56	63,72	36,28	85,59
Berlin - Tradegate Exchange (TGAT)	5,45	1,16	100,00	0,00	99,37
New York Stock Exchange (XNYS)	0,79	0,01	53,39	46,61	80,46
NYSE ARCA (ARCX)	0,78	0,03	74,33	25,67	99,55

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Table 3

Class of Instrument	Equities - Shares and Depository Receipts - Tick size liquidity bands 5 and 6 (from 2000 trades per day)				
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
GETTEX - Market Maker Munich (MUNC)	86,64	98,85	100,00	0,00	99,56
Xetra (XETR)	6,93	0,37	65,30	34,70	94,61
Berlin - Tradegate Exchange (TGAT)	3,86	0,54	100,00	0,00	99,18
NYSE ARCA (ARCX)	0,47	0,02	81,80	18,20	99,60
NASDAQ Stock Market (XNAS)	0,35	0,01	38,95	61,05	79,60

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Table 4

Class of Instrument	Equities - No specific assignment				
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
GETTEX - Market Maker Munich (MUNC)	73,62	93,83	100,00	0,00	99,90
Berlin - Tradegate Exchange (TGAT)	5,20	1,77	100,00	0,00	99,84
NASDAQ Stock Market (XNAS)	2,68	0,53	53,89	46,11	97,88
MEMX LLC (MEMX)	2,57	0,36	90,26	9,74	99,25
NYSE ARCA (ARCX)	2,05	0,33	48,31	51,69	99,94

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Table 5

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
GETTEX - Market Maker Munich (MUNC)	89,11	93,89	100,00	0,00	50,06
Berlin - Tradegate Exchange (TGAT)	5,68	2,11	100,00	0,00	94,15
Frankfurt (XFRA)	3,38	2,58	100,00	0,00	87,22
Stuttgart (XSTU)	1,27	0,94	100,00	0,00	78,78
München (XMUN)	0,26	0,12	100,00	0,00	70,59

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Table 6

Class of Instrument	Debt instruments - Money markets 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
null	0,00	0,00	0,00	0,00	0,00

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Table 7

Class of Instrument	Interest rates 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
null	0,00	0,00	0,00	0,00	0,00

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Table 8

Class of Instrument	Interest rates derivatives - Swaps, forwards, and other interest rates 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
null	0,00	0,00	0,00	0,00	0,00

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Table 9

Class of Instrument	Credit 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
null	0,00	0,00	0,00	0,00	0,00

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Table 10

Class of Instrument	Credit derivatives - Other credit 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
null	0,00	0,00	0,00	0,00	0,00

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Table 11

Class of Instrument	Currency 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
null	0,00	0,00	0,00	0,00	0,00

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Table 12

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
null	0,00	0,00	0,00	0,00	0,00

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Table 13

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
GETTEX - Market Maker Munich (MUNC)	100,00	100,00	100,00	0,00	0,00

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Table 14

Class of Instrument	Equity Derivatives - Options and Futures 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
EUREX AG (XEUR)	99,92	99,14	100,00	0,00	99,52
Chicago Board Opt. Exch. (XCBO)	0,08	0,86	100,00	0,00	0,00

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Table 15

Class of Instrument	Equity Derivatives - Swaps and other equity 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
null	0,00	0,00	0,00	0,00	0,00

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Table 16

Class of Instrument	Securitized Derivatives - Warrants and Certificate 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
GETTEX - Market Maker Munich (MUNC)	97,15	99,19	100,00	0,00	99,81
Stuttgart (XSTU)	1,88	0,47	100,00	0,00	86,13
Frankfurt (XFRA)	0,79	0,26	100,00	0,00	80,78
Xetra (XETR)	0,09	0,01	35,18	64,82	33,41
Berlin - Tradegate Exchange (TGAT)	0,07	0,07	100,00	0,00	13,86

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Table 17

Class of Instrument	Securitized Derivatives - Other securitized 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
GETTEX - Market Maker Munich (MUNC)	63,66	57,87	100,00	0,00	100,00
Frankfurt (XFRA)	26,78	26,38	100,00	0,00	95,16
Stuttgart (XSTU)	9,56	15,74	100,00	0,00	97,30

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Table 18

Class of Instrument	Commodities derivatives and emission allowances Derivatives - Options and Futures 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
null	0,00	0,00	0,00	0,00	0,00

Retail Clients

Table 19

Class of Instrument	Commodities derivatives and emission allowances Derivatives - Other commodities derivatives and emission allowances 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
null	0,00	0,00	0,00	0,00	0,00

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Table 20

Class of Instrument	Contracts for difference				
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
null	0,00	0,00	0,00	0,00	0,00

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Table 21

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				
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
GETTEX - Market Maker Munich (MUNC)	84,94	97,80	100,00	0,00	94,61
Xetra (XETR)	12,75	0,63	34,19	65,81	13,57
Berlin - Tradegate Exchange (TGAT)	1,57	1,35	100,00	0,00	15,31
Schweizer Boerse -SIX Swiss Exchange AG (XSWX)	0,20	0,02	19,37	80,63	2,91
WPB Hamburg - Lang & Schw. (HAML)	0,16	0,04	100,00	0,00	100,00

Retail Clients

Table 22

Class of Instrument	Emission allowances				
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
null	0,00	0,00	0,00	0,00	0,00

Retail Clients

Table 23

Class of Instrument	Other instruments				
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
GETTEX - Market Maker Munich (MUNC)	61,39	96,16	100,00	0,00	95,72
Schweizer Boerse -SIX Swiss Exchange AG (XSWX)	25,62	0,49	21,67	78,33	53,70
Frankfurt (XFRA)	3,67	0,57	100,00	0,00	96,74
Xetra (XETR)	3,36	0,77	50,17	49,83	100,00
Stuttgart (XSTU)	1,97	0,64	100,00	0,00	88,50

Professional Clients

Table 1

Class of Instrument	Equities - Shares and Depository Receipts - Tick size liquidity band 1 and 2 (from 0 to 79 trades per day)				
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
Schweizer Boerse -SIX Swiss Exchange AG (XSWX)	30,39	5,95	32,75	67,25	22,34
CBOE EUROPE - CXE ORDER BOOKS (CHIX)	8,80	0,41	88,88	11,12	4,35
Xetra (XETR)	5,06	8,06	57,01	42,99	77,74
Berlin - Tradegate Exchange (TGAT)	4,61	30,43	100,00	0,00	99,23
London Stock Exchange (XLON)	3,90	0,64	66,24	33,76	13,79

Professional Clients

Table 2

Class of Instrument	Equities - Shares and Depository Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)				
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
Xetra (XETR)	19,69	12,58	69,53	30,47	83,80
Berlin - Tradegate Exchange (TGAT)	18,89	51,64	100,00	0,00	99,68
Wien (XWBO)	9,92	1,76	22,98	77,02	81,80
New York Stock Exchange (XNYS)	4,97	0,63	74,91	25,09	76,25
GETTEX - Market Maker Munich (MUNC)	3,63	16,58	100,00	0,00	96,29

Professional Clients

Table 3

Class of Instrument	Equities - Shares and Depository Receipts - Tick size liquidity bands 5 and 6 (from 2000 trades per day)				
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
Xetra (XETR)	29,55	19,51	56,22	43,78	80,40
Berlin - Tradegate Exchange (TGAT)	22,68	45,76	100,00	0,00	99,65
CBOE EUROPE - DXE ORDER BOOKS (NL) (CEUX)	7,24	1,09	43,32	56,68	18,91
GETTEX - Market Maker Munich (MUNC)	5,95	18,52	100,00	0,00	95,85
NASDAQ Stock Market (XNAS)	2,93	0,41	57,08	42,92	63,36

Professional Clients

Table 4

Class of Instrument	Equities - No specific assignment				
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
Schweizer Boerse -SIX Swiss Exchange AG (XSWX)	22,20	7,60	57,00	43,00	34,98
NASDAQ Stock Market (XNAS)	12,14	4,15	63,25	36,75	45,23
Jersey City/N.J. - DirectEdge - EDGX Exchange Trading (EDGX)	9,12	4,34	80,74	19,26	13,38
New York Stock Exchange (XNYS)	5,05	2,28	66,03	33,97	58,11
New York/N.Y. - IEX Trading (IEXG)	3,79	0,76	52,30	47,70	8,78

Professional Clients

Table 5

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
Frankfurt (XFRA)	58,29	70,47	100,00	0,00	97,54
GETTEX - Market Maker Munich (MUNC)	17,91	13,12	100,00	0,00	19,22
Stuttgart (XSTU)	9,63	7,75	100,00	0,00	93,93
Berlin - Tradegate Exchange (TGAT)	5,85	3,14	100,00	0,00	89,38
München (XMUN)	3,12	1,30	100,00	0,00	75,29

Professional Clients

Table 6

Class of Instrument	Debt instruments - Money markets 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
null	0,00	0,00	0,00	0,00	0,00

Professional Clients

Table 7

Class of Instrument	Interest rates 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
EUREX AG (XEUR)	97,16	93,89	100,00	0,00	76,52
Chicago Board of Trade (XCBT)	2,65	4,94	37,79	62,21	8,83
Osaka Sec.Ex.-Opt.+Fut. (XOSE)	0,10	0,16	100,00	0,00	0,00
London - ICE Futures Europe (IFEU)	0,07	0,61	97,44	2,56	0,00
Montreal Exch.-Fut./Opt. (XMOD)	0,02	0,41	80,77	19,23	0,00

Professional Clients

Table 8

Class of Instrument	Interest rates derivatives - Swaps, forwards, and other interest rates 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
null	0,00	0,00	0,00	0,00	0,00

Professional Clients

Table 9

Class of Instrument	Credit 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
null	0,00	0,00	0,00	0,00	0,00

Professional Clients

Table 10

Class of Instrument	Credit derivatives - Other credit 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
null	0,00	0,00	0,00	0,00	0,00

Professional Clients

Table 11

Class of Instrument	Currency 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
Chicago Merc. Ex. (XCME)	100,00	100,00	97,28	2,72	1,81

Professional Clients

Table 12

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
null	0,00	0,00	0,00	0,00	0,00

Professional Clients

Table 13

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
Frankfurt (XFRA)	90,17	77,78	100,00	0,00	71,43
Düsseldorf (XDUS)	9,84	22,22	100,00	0,00	50,00

Professional Clients

Table 14

Class of Instrument	Equity Derivatives - Options and Futures 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
EUREX AG (XEUR)	79,62	76,25	100,00	0,00	88,21
Chicago Merc. Ex. (XCME)	15,08	7,31	63,76	36,24	85,48
Paris - NYSE Liffe (XMON)	0,85	0,26	100,00	0,00	6,99
Madrid - MEFF R. Var. (XMRV)	0,82	0,19	99,73	0,27	0,00
New York Board of Trade (IFUS)	0,79	0,15	32,29	67,71	0,00

Professional Clients

Table 15

Class of Instrument	Equity Derivatives - Swaps and other equity 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
null	0,00	0,00	0,00	0,00	0,00

Professional Clients

Table 16

Class of Instrument	Securitized Derivatives - Warrants and Certificate 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
Stuttgart (XSTU)	54,77	59,29	100,00	0,00	97,23
Frankfurt (XFRA)	40,08	37,98	100,00	0,00	98,49
GETTEX - Market Maker Munich (MUNC)	3,30	1,54	100,00	0,00	99,12
Xetra (XETR)	0,59	0,51	47,93	52,07	89,04
Düsseldorf (XDUS)	0,53	0,13	100,00	0,00	70,59

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Table 17

Class of Instrument	Securitized Derivatives - Other securitized 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
Frankfurt (XFRA)	51,37	47,07	100,00	0,00	84,50
Stuttgart (XSTU)	37,40	37,30	100,00	0,00	79,04
Wien (XWBO)	9,96	13,90	98,89	1,11	77,50
Berlin (XBER)	0,60	1,04	100,00	0,00	83,33
Hannover (XHAN)	0,44	0,52	100,00	0,00	100,00

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Table 18

Class of Instrument	Commodities derivatives and emission allowances Derivatives - Options and Futures 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
New York Board of Trade (IFUS)	96,83	77,42	84,72	15,28	80,56
New York - NYMEX Div. (XNYM)	1,05	5,38	40,00	60,00	0,00
Chicago Board of Trade (XCBT)	0,88	5,38	0,00	100,00	0,00
New York - COMEX Div. (XCEC)	0,55	5,38	20,00	80,00	20,00
Chicago Merc. Ex. (XCME)	0,40	2,15	100,00	0,00	0,00

Professional Clients

Table 19

Class of Instrument	Commodities derivatives and emission allowances Derivatives - Other commodities derivatives and emission allowances 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
null	0,00	0,00	0,00	0,00	0,00

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Table 20

Class of Instrument	Contracts for difference				
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
null	0,00	0,00	0,00	0,00	0,00

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Table 21

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				
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
Xetra (XETR)	37,72	30,19	29,48	70,52	80,28
GETTEX - Market Maker Munich (MUNC)	34,73	42,78	100,00	0,00	90,68
London Stock Exchange (XLON)	4,85	1,06	12,51	87,49	32,73
Amsterdam - Bloomberg Trading Facility (BTFE)	3,25	0,11	100,00	0,00	24,98
Stuttgart (XSTU)	3,12	4,85	100,00	0,00	66,47

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Table 22

Class of Instrument	Emission allowances				
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
null	0,00	0,00	0,00	0,00	0,00

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Table 23

Class of Instrument	Other instruments				
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
Schweizer Boerse -SIX Swiss Exchange AG (XSWX)	31,48	12,23	17,80	82,20	73,91
EUREX AG (XEUR)	28,57	3,92	100,00	0,00	27,89
CBOE EUROPE - CXE ORDER BOOKS (CHIX)	5,51	0,32	88,27	11,73	9,34
Frankfurt (XFRA)	4,66	16,40	100,00	0,00	97,05
Stuttgart (XSTU)	4,25	13,87	100,00	0,00	97,92