

TOP 5 Initial Report for the Financial Year 2017

Class of Instrument	Equities – Shares & Depository Receipts -Tick size liquidity bands 5 and 6 (from 2000 trades per day)				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Equities – Shares & Depository Receipts -Tick size liquidity bands 5 and 6 (from 2000 trades per day)*				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Hannover (XHAN)	25,36	23,63	n.a.	n.a.	3,18
Tradegate (XGAT)	22,60	25,34	n.a.	n.a.	76,69
XETRA (XETR)	17,56	16,15	n.a.	n.a.	99,69
Quotrix (XQTX)	13,36	10,37	n.a.	n.a.	2,84
Frankfurt (XFRA)	12,34	16,11	n.a.	n.a.	99,63

*Report retroactively for 2017 for customers from Hannover

Note: No differentiation by financial instrument group due to MiFID II launch in 2018.

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Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XETRA (XETR)	50,75	29,65	n.a.	n.a.	99,69
Quotrix (XQTX)	19,67	20,81	n.a.	n.a.	2,00
Tradegate (XGAT)	10,74	25,95	n.a.	n.a.	31,34
Hannover (XHAN)	5,60	8,98	n.a.	n.a.	1,16
New York - NYSE	4,15	1,17	n.a.	n.a.	100,00

*Report retroactively for 2017 for customers from Bremen and Oldenburg

Class of Instrument	Equities – Shares & Depository Receipts -Tick size liquidity bands 5 and 6 (from 2000 trades per day)				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
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n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

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Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XETRA (XETR)	83,37	22,41	n.a.	n.a.	100,00
Frankfurt (XFRA)	16,11	74,14	n.a.	n.a.	93,02
Paris (XPAR)	0,34	1,72	n.a.	n.a.	100,00
Brüssel (XBRU)	0,19	1,72	n.a.	n.a.	100,00
n.a.	0	0	n.a.	n.a.	0

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Paris (XPAR)	26,68	4,10	n.a.	n.a.	100,00
XETRA (XETR)	23,94	13,93	n.a.	n.a.	100,00
Madrid SdB (XMCE)	16,24	3,28	n.a.	n.a.	100,00
Hannover (XHAN)	6,98	47,54	n.a.	n.a.	0,00
London (XLON)	5,45	2,46	n.a.	n.a.	100,00

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Class of Instrument	Equities – Shares & Depository Receipts -Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)				
Client Classification	Retail Client				
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Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
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Class of Instrument	Equities – Shares & Depository Receipts -Tick size liquidity bands 1 and 2 (from 0 to 79 trades per day)				
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n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
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Landesbank Württemberg (B81CK) (ES135472RHJ606)	100	100	n.a.	n.a.	100	
n.a.	0	0	n.a.	n.a.	0	
n.a.	0	0	n.a.	n.a.	0	
n.a.	0	0	n.a.	n.a.	0	
n.a.	0	0	n.a.	n.a.	0	

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Frankfurt (XFRA)	16,11	74,14	n.a.	n.a.	93,02	
Paris (XPAR)	0,34	1,72	n.a.	n.a.	100,00	
Brüssel (XBRU)	0,19	1,72	n.a.	n.a.	100,00	
n.a.	0	0	n.a.	n.a.	0	

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XETRA (XETR)	23,94	13,93	n.a.	n.a.	100,00	
Madrid (XMCE)	16,24	3,28	n.a.	n.a.	100,00	
Hannover (XHAN)	6,98	47,54	n.a.	n.a.	0,00	
London (XLON)	5,45	2,46	n.a.	n.a.	100,00	

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Class of Instrument	Debt instruments - Bonds				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Debt instruments - Bonds*				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Stuttgart (XSTU)	35,28	31,18	n.a.	n.a.	99,81
Düsseldorf (XDUS)	17,25	8,09	n.a.	n.a.	97,84
Hannover (XHAN)	16,65	25,65	n.a.	n.a.	48,98
Frankfurt (XFRA)	10,96	19,02	n.a.	n.a.	69,72
Berlin (XBER)	8,09	5,82	n.a.	n.a.	72,00

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Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Stuttgart (XSTU)	41,77	31,36	n.a.	n.a.	99,59
Düsseldorf (XDUS)	20,74	17,87	n.a.	n.a.	99,28
Frankfurt (XFRA)	12,03	18,77	n.a.	n.a.	60,27
Hamburg (XHAM)	7,60	5,14	n.a.	n.a.	72,50
Tradegate (XGAT)	6,66	15,04	n.a.	n.a.	56,40

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n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Debt instruments - Bonds*				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Stuttgart (XSTU)	65,18	73,91	n.a.	n.a.	100,00
Düsseldorf (XDUS)	18,18	8,70	n.a.	n.a.	100,00
Frankfurt (XFRA)	8,80	8,70	n.a.	n.a.	100,00
Hannover (XHAN)	7,11	4,35	n.a.	n.a.	100,00
Quotrix (XQTX)	0,73	4,35	n.a.	n.a.	0,00

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Düsseldorf (XDUS)	45,06	38,00	n.a.	n.a.	100,00
Stuttgart (XSTU)	19,15	16,00	n.a.	n.a.	100,00
Frankfurt (XFRA)	18,11	16,00	n.a.	n.a.	100,00
Hamburg (XHAM)	7,18	18,00	n.a.	n.a.	11,11
Berlin (XBER)	5,86	6,00	n.a.	n.a.	66,67

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Class of Instrument	Debt instruments - Money markets instruments				
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Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

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n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
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n.a.	0	0	n.a.	n.a.	0

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n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Interest rates derivatives - Futures and options admitted to trading on a trading venue				
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n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
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n.a.	0	0	n.a.	n.a.	0

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n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Interest rates derivatives - Futures and options admitted to trading on a trading venue				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Interest rates derivatives - Swaps, forwards, and other interest rates derivatives				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Interest rates derivatives - Swaps, forwards, and other interest rates derivatives				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	Yes				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
NLB (NLBX)	100	100	0	100	100
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Interest rates derivatives - Swaps, forwards, and other interest rates derivatives				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Interest rates derivatives - Swaps, forwards, and other interest rates derivatives				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	Yes				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
NLB (NLBX)	100	100	0	100	100
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Credit derivatives - Futures and options admitted to trading on a trading venue				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Credit derivatives - Futures and options admitted to trading on a trading venue				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Credit derivatives - Futures and options admitted to trading on a trading venue				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Credit derivatives - Futures and options admitted to trading on a trading venue				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Credit derivatives - Other credit derivatives				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Credit derivatives - Other credit derivatives				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Credit derivatives - Other credit derivatives				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Credit derivatives - Other credit derivatives				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Currency derivatives - Futures and options admitted to trading on a trading venue				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Currency derivatives - Futures and options admitted to trading on a trading venue				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Currency derivatives - Futures and options admitted to trading on a trading venue				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Currency derivatives - Futures and options admitted to trading on a trading venue				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Currency derivatives - Swaps, forwards, and other currency derivatives				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Currency derivatives - Swaps, forwards, and other currency derivatives				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	Yes				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
NLB (NLBX)	100	100	0	100	100
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Currency derivatives - Swaps, forwards, and other currency derivatives				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Currency derivatives - Swaps, forwards, and other currency derivatives				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	Yes				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
NLB (NLBX)	100	100	0	100	100
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Structured finance instruments				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Structured finance instruments				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Structured finance instruments				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Structured finance instruments				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Equity Derivatives - Options and Futures admitted to trading on a trading venue				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Equity Derivatives - Options and Futures admitted to trading on a trading venue				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
EUREX (529900LN3S50JPU47S06)	100	100	100	0	100
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Equity Derivatives - Options and Futures admitted to trading on a trading venue				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Equity Derivatives - Options and Futures admitted to trading on a trading venue				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Equity Derivatives - Swaps and other equity derivatives				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Equity Derivatives - Swaps and other equity derivatives				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Equity Derivatives - Swaps and other equity derivatives				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Equity Derivatives - Swaps and other equity derivatives				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Securitized Derivatives - Warrants and Certificate Derivatives				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Securitized Derivatives - Warrants and Certificate Derivatives*				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Stuttgart (XSTU)	89,40	84,78	n.a.	n.a.	35,37
Frankfurt (XFRA)	9,36	14,30	n.a.	n.a.	98,01
XETRA (XETR)	0,77	0,46	n.a.	n.a.	100,00
Tradegate (XGAT)	0,24	0,26	n.a.	n.a.	100,00
Hannover (XHAN)	0,19	0,08	n.a.	n.a.	100,00

*Report retroactively for 2017 for customers from Hannover

Class of Instrument	Securitized Derivatives - Warrants and Certificate Derivatives*				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Stuttgart (XSTU)	90,68	82,47	n.a.	n.a.	34,00
Frankfurt (XFRA)	8,58	16,56	n.a.	n.a.	97,78
XETRA (XETR)	0,48	0,45	n.a.	n.a.	100,00
Tradegate (XGAT)	0,23	0,45	n.a.	n.a.	100,00
München (XMUN)	0,02	0,08	n.a.	n.a.	100,00

*Report retroactively for 2017 for customers from Bremen and Oldenburg

Class of Instrument	Securitized Derivatives - Warrants and Certificate Derivatives				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Securitized Derivatives - Warrants and Certificate Derivatives*				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Stuttgart (XSTU)	100,00	100,00	n.a.	n.a.	34,15
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

*Report retroactively for 2017 for customers from Hannover

Class of Instrument	Securitized Derivatives - Warrants and Certificate Derivatives*				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

*Report retroactively for 2017 for customers from Bremen and Oldenburg

Class of Instrument	Securitized Derivatives - Other securitized derivatives				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Securitized Derivatives - Other securitized derivatives*				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Stuttgart (XSTU)	92,84	87,28	n.a.	n.a.	21,61
Hannover (XHAN)	4,11	4,17	n.a.	n.a.	100,00
Frankfurt (XFRA)	3,05	8,55	n.a.	n.a.	84,62
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

*Report retroactively for 2017 for customers from Hannover

Class of Instrument	Securitized Derivatives - Other securitized derivatives*				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Stuttgart (XSTU)	95,77	93,82	n.a.	n.a.	8,39
Frankfurt (XFRA)	4,23	6,18	n.a.	n.a.	100,00
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

*Report retroactively for 2017 for customers from Bremen and Oldenburg

Class of Instrument	Securitized Derivatives - Other securitized derivatives				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Securitized Derivatives - Other securitized derivatives*				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Stuttgart (XSTU)	100,00	100,00	n.a.	n.a.	58,33
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

*Report retroactively for 2017 for customers from Hannover

Class of Instrument	Securitized Derivatives - Other securitized derivatives*				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Stuttgart (XSTU)	100,00	100,00	n.a.	n.a.	20,00
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

*Report retroactively for 2017 for customers from Bremen and Oldenburg

Class of Instrument	Commodities derivatives and emission allowances Derivatives - Options and Futures admitted to trading on a trading venue				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	Yes				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
JP Morgan (7H6GLXDRUGQFU57RNE97)	100	100	96,91	3,09	100
n.a.	0	0	0	0	0
n.a.	0	0	0	0	0
n.a.	0	0	0	0	0
n.a.	0	0	0	0	0

Class of Instrument	Commodities derivatives and emission allowances Derivatives - Options and Futures admitted to trading on a trading venue				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Commodities derivatives and emission allowances Derivatives - Options and Futures admitted to trading on a trading venue				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	Yes				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
JP Morgan (7H6GLXDRUGQFU57RNE97)	100	100	100	0	100
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Commodities derivatives and emission allowances Derivatives - Options and Futures admitted to trading on a trading venue				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Commodities derivatives and emission allowances Derivatives - Other commodities derivatives and emission allowances derivatives				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Commodities derivatives and emission allowances Derivatives - Other commodities derivatives and emission allowances derivatives				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Commodities derivatives and emission allowances Derivatives - Other commodities derivatives and emission allowances derivatives				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Commodities derivatives and emission allowances Derivatives - Other commodities derivatives and emission allowances derivatives				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Contracts for difference				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Contracts for difference				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Contracts for difference				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Contracts for difference				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Emission allowances				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Emission allowances				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Emission allowances				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Other instruments				
Client Classification	Retail Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Other instruments				
Client Classification	Retail Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Other instruments				
Client Classification	Professional Client				
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Other instruments				
Client Classification	Professional Client				
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 percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0
n.a.	0	0	n.a.	n.a.	0

Class of Instrument	Securities financing transactions (SFT) for all financial instruments*	
Client Classification	Retail Client	
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 percentage of total in that class
n.a.	0	0
n.a.	0	0
n.a.	0	0
n.a.	0	0
n.a.	0	0

*There are no customer orders in 2017. Therefore, the zero report refers to all financial instruments.

Class of Instrument	Securities financing transactions (SFT) for all financial instruments*	
Client Classification	Professional Client	
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 percentage of total in that class
n.a.	0	0
n.a.	0	0
n.a.	0	0
n.a.	0	0
n.a.	0	0

*There are no customer orders in 2017. Therefore, the zero report refers to all financial instruments.