

TOP 5 Initial Report for the Financial Year 2017

Class of Instrument Client Classification Notification if < 1 average trade per business day in the previous year	Equities – Shares & Depositary I Retail Client n.a.	Receipts -Tick size liquidity band	s 5 and 6 (from 2000 trades per	day)	
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Equities – Shares & Depositary I	Receipts -Tick size liquidity band	s 5 and 6 (from 2000 trades per	day)*	
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

Class of Instrument Client Classification	Equities – Shares & Depositary I Retail Client	Receipts -Tick size liquidity band	s 5 and 6 (from 2000 trades per	day)*	
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)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Equities — Shares & Depositary F Professional Client n.a.	Receipts -Tick size liquidity band	s 5 and 6 (from 2000 trades per	day)	
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Equities – Shares & Depositary I Professional Client	Receipts -Tick size liquidity band	s 5 and 6 (from 2000 trades per	day)*	
	n.a.			THE DAY HERE	
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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Class of Instrument Client Classification Notification if < 1 average trade per business day in the previous year	Equities — Shares & Depositary f	Receipts -Tick size liquidity band	s 5 and 6 (from 2000 trades per	day)*	
Top five execution venues ranked in terms of trading	Proportion of volume traded as a percentage of total in that	Proportion of orders executed as percentage of total in that	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
volumes (descending order)	class	class		orders	
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

^{*}Report retroactively for 2017 for customers from Bremen and Oldenburg





Class of Instrument Client Classification Notification if < 1 average trade per business day in the previous year	Equities – Shares & Depositary Receipts -Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day) at Classification Retail Client fication if < 1 average e per business day in the						
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Equities — Shares & Depositary Retail Client	Receipts -Tick size liquidity band	s 3 and 4 (from 80 to 1999 trad	es per day)*	
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

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Class of Instrument	quities – Shares & Depositary Receipts -Tick size liquidity bands 3 and 4 (from 80 to 1999 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)	as a percentage of total in that	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 Hannover





Class of Instrument Client Classification Notification if < 1 average trade per business day in the previous year	Equities — Shares & Depositary I Professional Client	Receipts -Tick size liquidity band	s 3 and 4 (from 80 to 1999 trade	es per day)	
	n.a.			24 - 11 (4 - 42	
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 Client Classification	Equities — Shares & Depositary I	Receipts -Tick size liquidity band	s 3 and 4 (from 80 to 1999 trad	es per day)*	
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
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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Class of Instrument	Equities – Shares & Depositary f	Receipts -Tick size liquidity band	s 3 and 4 (from 80 to 1999 trade	es per day)*	
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
Paris (XPAR)	26,68	4,10	n.a.	n.a.	100,00
	23,94	13,93	n.a.	n.a.	100,00
XETRA (XETR)	16,24	3,28	n.a.	n.a.	100,00
Madrid SdB (XMCE)	6,98	47,54	n.a.	n.a.	0,00
Hannover (XHAN)	5.45	2.46	n.a.	n.a.	100,00

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Class of Instrument Client Classification Notification if < 1 average trade per business day in the previous year	Equities – Shares & Depositary I Retail Client	Receipts -Tick size liquidity band	s 1 and 2 (from 0 to 79 trades p	er day)	
	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Equities – Shares & Depositary Retail Client	Receipts -Tick size liquidity band	s 1 and 2 (from 0 to 79 trades p	er day)*	
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that	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

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Class of Instrument Client Classification Notification if < 1 average	Equities — Shares & Depositary I Retail Client	Receipts -Tick size liquidity band	s 1 and 2 (from 0 to 79 trades p	er day)*	
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
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

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Girozentrale

Norddeutsche Landesbank



Class of Instrument Client Classification Notification if < 1 average trade psychology business day in the previous year	Equities – Shares & Depositary I Professional Client n.a.	Receipts -Tick size liquidity band:	s 1 and 2 (from 0 to 79 trades pε	er day)	
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
andest _{iank} Baden- Württer _n berg (B81CK4 <mark>ESI35472RHJ606)</mark>	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

Class of Instrument Client Classification Notification if < 1 average trade pt provious year	Equities — Shares & Depositary f Professional Client n.a.	Receipts -Tick size liquidity band	s 1 and 2 (from 0 to 79 trades po	er day)*	
Top five execution venues ranked in terms of trading volumes (descending order)	as a percentage of total in that	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
Frankfu + (VEDA)	16,11	74,14	n,a,	n.a.	93,02
Paris (XPAR)	0,34	1,72	n.a.	n.a.	100,00
Brüssel (VRDIII)	0.19	1.72	n.a.	n.a.	100,00

^{*}Report retroactively for 2017 for customers from Hannover

n.a.

		Equities — Shares & Depositary Receipts -Tick size liquidity bands 1 and 2 (from 0 to 79 trades per day)*							
- la	ssification	Professional Client							
Notifica	ion if < 1 average								
trade pe	husiness day in the								
previous	year								
		n.a.				A CONTRACTOR OF THE CONTRACTOR			
ranked i	terms of trading	as a percentage of total in that	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders			
Paris (XF	AR)	26,68	4,10	n.a.	n,a.	100,00			
XETRA ((FTR)	23,94	13,93	n.a.	n.a.	100,00			
Madrid 5	dB (XMCE)	16,24	3,28	n.a.	n.a,	100,00			
Hannove	r (XHAN)	6,98	47,54	n.a.	n.a.	0,00			
London	XLON)	5,45	2,46	n.a.	n.a.	100,00			

^{*}Report retroactively for 2017 for customers from Bremen and Oldenburg







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

^{*}Report retroactively for 2017 for customers from Hannover

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)	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		

^{*}Report retroactively for 2017 for customers from Bremen and Oldenburg



Girozentrale

Norddeutsche Landesbank



Class of Instrument Client Classification Notification if < 1 average trade per business day in the previous year	Debt instruments - Bonds Professional Client				
	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 Client Classification	Debt instruments - Bonds*				
Notification if < 1 average trade per business day in the previous year	Professional Client		2		
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

^{*}Report retroactively for 2017 for customers from Hannover

Class of Instrument Client Classification Notification if < 1 average trade per business day in the	Debt instruments - Bonds* Professional Client				
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
Düsseldorf (XDUS)	45,06	38,00	n.a.	n.a.	100,00
	19,15	16,00	n.a.	n.a.	100,00
Stuttgart (XSTU)	18,11	16,00	n.a.	n.a.	100,00
Frankfurt (XFRA)	7,18	18,00	n.a.	n.a.	11,11
Hamburg (XHAM) Berlin (XBER)	5,86	6,00	n.a.	n.a.	66,67

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Norddeutsche Landesbank



Class of Instrument Client Classification Notification if < 1 average trade per business day in the previous year	Debt instruments - Money mar Retail Client n.a.	kets instruments			
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 Client Classification Notification if < 1 average trade per business day in the previous year	Debt instruments - Money mar Retail Client n.a.	kets instruments			
Top five execution venues ranked in terms of trading volumes (descending order)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Debt instruments - Money mar Professional Client	kets instruments			
Top five brokers ranked in terms of trading volumes (descending order)		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 Client Classification Notification if < 1 average trade per business day in the previous year	Debt instruments - Money mark Professional Client n.a.	xets instruments			
Top five execution venues ranked in terms of trading volumes (descending order)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Interest rates derivatives - Futu Retail Client n.a.	res and options admitted to trac	ling on a trading venue		
Top five brokers ranked in terms of trading volumes (descending order)		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 Client Classification Notification if < 1 average trade per business day in the previous year	Interest rates derivatives - Futu Retail Client n.a.	res and options admitted to trac	ding on a trading venue		
Top five execution venues ranked in terms of trading volumes (descending order)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Interest rates derivatives - Futu Professional Client n.a.	res and options admitted to trac	ding on a trading venue		
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Interest rates derivatives - Futu Professional Client n.a.	res and options admitted to trac	ding on a trading venue		
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 Client Classification Notification if < 1 average trade per business day in the previous year	Interest rates derivatives - Swap	os, forwards, and other interest	rates derivatives		
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 Client Classification	Interest rates derivatives - Swap	os, forwards, and other interest	rates derivatives		
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 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 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 Client Classification Notification if < 1 average trade per business day in the previous year	Interest rates derivatives - Swap Professional Client	os, forwards, and other interest	rates derivatives		
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 Client Classification Notification if < 1 average trade per business day in the previous year	Credit derivatives - Futures and Retail Client	options admitted to trading on	a trading venue		
	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	as a percentage of total in that	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	

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

Class of Instrument	Currency derivatives - Futures a	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



Class of Instrument Client Classification	Currency derivatives - Futures and options admitted to trading on a trading venue 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)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Currency derivatives - Futures a Professional Client	nd options admitted to trading	on a trading venue		
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 Client Classification Notification if < 1 average trade per business day in the previous year	Currency derivatives - Futures a	nd options admitted to trading	on a trading venue		
Top five execution venues ranked in terms of trading volumes (descending order)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Currency derivatives - Swaps, fo	orwards, and other currency der	ivatives		
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 Client Classification Notification if < 1 average trade per business day in the previous year	Currency derivatives - Swaps, fo						
Top five execution venues ranked in terms of trading volumes (descending order)		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		

Client Classification	Currency derivatives - Swaps, fo	rwards, and other currency deri	vatives		
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 Client Classification	Currency derivatives - Swaps, fo	orwards, and other currency der	ivatives		
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	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 Client Classification Notification if < 1 average trade per business day in the previous year	Structured finance instruments Retail Client				
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that	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)	as a percentage of total in that	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 Client Classification	Structured finance instruments 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 Client Classification Notification if < 1 average trade per business day in the previous year	Structured finance instruments Professional Client				
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 Client Classification Notification if < 1 average trade per business day in the previous year	Equity Derivatives - Options and	I Futures admitted to trading or	n a trading venue		
Top five brokers ranked in terms of trading volumes (descending order)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Equity Derivatives - Options and Retail Client	Futures admitted to trading or	a trading venue	¥	
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Equity Derivatives - Options and Professional Client	d Futures admitted to trading or	n a trading venue		
	n.a.				
Top five brokers ranked in terms of trading volumes (descending order)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year Top five execution venues ranked in terms of trading volumes (descending order)	Equity Derivatives - Options and Professional Client	d Futures admitted to trading or	a trading venue		
		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 Proportion of volume traded Proportion of orders executed Top five brokers ranked in Percentage of aggressive as percentage of total in that Percentage of directed orders terms of trading volumes as a percentage of total in that Percentage of passive orders orders class (descending order) class n.a. 0 0 n.a. 0 n.a. n.a. 0 0 n.a. 0 n.a. 0 n.a. n.a. 0 0 n.a. 0 0 n.a. n.a. 0 n.a.

n.a.	0	0	n.a.	n.a.	0
Class of Instrument Client Classification Notification if < 1 average trade per business day in the previous year	Equity Derivatives - Swaps and Retail Client	other equity derivatives			
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Equity Derivatives - Swaps and Professional Client	other equity derivatives			
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 Client Classification Notification if < 1 average trade per business day in the previous year	Equity Derivatives - Swaps and of Professional Client	other equity derivatives			
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 Client Classification	Securitized Derivatives - Warrar Retail Client	nts and Certificate Derivatives			
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 Client Classification Notification if < 1 average trade per business day in the previous year	Securitized Derivatives - Warrar Retail Client n.a.	nts and Certificate Derivatives*			
Top five execution venues ranked in terms of trading volumes (descending order)		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 Client Classification Notification if < 1 average trade per business day in the previous year	Securitized Derivatives - Warrar Retail Client n.a.							
Top five execution venues ranked in terms of trading volumes (descending order)	as a percentage of total in that	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 Client Classification	Securitized Derivatives - Warrar Professional Client	ats and Certificate Derivatives			
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)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Securitized Derivatives - Warrar Professional Client n.a.	nts and Certificate Derivatives*			
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that	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 Client Classification	Securitized Derivatives - Warrar Professional Client	ats and Certificate Derivatives*			
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five execution venues ranked in terms of trading volumes (descending order)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Securitized Derivatives - Other s Retail Client	securitized derivatives			
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 Client Classification Notification if < 1 average trade per business day in the previous year	Securitized Derivatives - Other s Retail Client	securitized derivatives*			
	n.a.				
Top five execution venues ranked in terms of trading volumes (descending order)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Securitized Derivatives - Other s Retail Client	ecuritized derivatives*			
Top five execution venues ranked in terms of trading volumes (descending order)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Securitized Derivatives - Other s	securitized derivatives			
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 Client Classification Notification if < 1 average trade per business day in the previous year	Securitized Derivatives - Other securitized derivatives* Professional Client n.a.					
Top five execution venues ranked in terms of trading volumes (descending order)		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 Client Classification Notification if < 1 average trade per business day in the previous year	Securitized Derivatives - Other securitized derivatives* Professional Client he							
Top five execution venues ranked in terms of trading volumes (descending order)		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 Client Classification Notification if < 1 average trade per business day in the previous year	Commodities derivatives and er Retail Client Yes	nission allowances Derivatives -	Options and Futures admitted	to trading on a trading venue	
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 Client Classification Notification if < 1 average trade per business day in the previous year	Commodities derivatives and er Retail Client	nission allowances Derivatives -	Options and Futures admitted	to trading on a trading venue	
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 Client Classification Notification if < 1 average trade per business day in the previous year	Commodities derivatives and emission allowances Derivatives - Options and Futures admitted to trading on a trading venue Professional Client Yes						
Top five brokers ranked in terms of trading volumes (descending order)	as a percentage of total in that	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.		Hirth L. 1 Sign and John Co.	The second second			
Top five execution venues ranked in terms of trading volumes (descending order)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Commodities derivatives and engagement of the second secon	mission allowances Derivatives -	Other commodities derivatives	and emission allowances deri	vatives
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 Client Classification Notification if < 1 average trade per business day in the previous year	Commodities derivatives and er Retail Client	nission allowances Derivatives -	Other commodities derivatives	and emission allowances deriv	vatives
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Commodities derivatives and er	nission allowances Derivatives -	Other commodities derivatives	and emission allowances deriv	atives
Top five brokers ranked in terms of trading volumes (descending order)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Commodities derivatives and en	mission allowances Derivatives -	Other commodities derivatives	and emission allowances deriv	vatives
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 Client Classification Notification if < 1 average trade per business day in the previous year	Contracts for difference Retail Client				
Top five execution venues ranked in terms of trading volumes (descending order)		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 Client Classification	Contracts for difference 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)	as a percentage of total in that	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 Client Classification Notification if < 1 average	Contracts for difference Professional Client				
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 Client Classification Notification if < 1 average trade per business day in the previous year	Exchange traded products (Exchange traded pr	nange traded funds, exchange tr	aded notes and exchange trade	d commodities)	
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 Client Classification Notification if < 1 average trade per business day in the previous year	Exchange traded products (Exchange traded products (Exchange Retail Client	nange traded funds, exchange tr	aded notes and exchange trade	ed commodities)	
Top five execution venues ranked in terms of trading volumes (descending order)	as a percentage of total in that	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 (Excl	hange traded funds, exchange tr	aded notes and exchange trade	d 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 Client Classification	Exchange traded products (Exchange traded products (Exchange)	nange traded funds, exchange tr	aded notes and exchange trade	d commodities)	
Notification if < 1 average trade per business day in the previous year	n.a.				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as 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 Client Classification	Emission allowances				
Notification if < 1 average trade per business day in the previous year	n.a.	v.			
Top five brokers ranked in terms of trading volumes (descending order)	as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Emission allowances Professional Client 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 Client Classification Notification if < 1 average trade per business day in the previous year	Emission allowances Professional Client			965	
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

Client Classification

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)	as a percentage of total in that	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

Client Classification

Notification if < 1 average trade per business day in the previous year

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
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)	as a percentage of total in that	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
74-20	0	0	n 2	n 2	0

n.a.

n.a.

n.a.



Class of Instrument Client Classification Notification if < 1 average trade per business day in the previous year	Other instruments Professional Client				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that	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 Client Classification Notification if < 1 average trade per business day in the previous year	Securities financing transactions (SFT) for all financial instrumen Retail Client		
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded	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 Client Classification Notification if < 1 average trade per business day in the previous year	Securities financing transactions (SFT) for all financial instrument Professional Client		
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	

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

