

Top five execution venues

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity bands 5 and 6 (from 2000 trades per day)				
	N				
Notification if < 1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XETRA - REGULIERTER MARKT (XETA)	21,5%	26,8%	31,8%	58,6%	100,0%
TRADEGATE EXCHANGE - FREIVERKEHR (XGAT)	20,3%	40,1%	0,0%	0,0%	66,2%
BOERSE DUESSELDORF - QUOTRIX MTF (DUSD)	7,6%	11,0%	0,0%	0,0%	6,5%
BOERSE DUESSELDORF - QUOTRIX - REGULIERTER MARKT	3,4%	5,2%	0,0%	0,0%	4,6%
BOERSE FRANKFURT - REGULIERTER MARKT (FRAA)	2,0%	4,4%	0,0%	0,0%	100,0%

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)				
	N				
Notification if < 1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
TRADEGATE EXCHANGE - FREIVERKEHR (XGAT)	43,0%	52,0%	0,0%	0,0%	65,4%
XETRA - REGULIERTER MARKT (XETA)	13,0%	20,3%	45,1%	47,5%	100,0%
XETRA - FREIVERKEHR (XETB)	7,1%	7,4%	32,7%	56,7%	100,0%
BOERSE FRANKFURT - FREIVERKEHR (FRAB)	3,1%	4,7%	0,0%	0,0%	97,7%
BOERSE DUESSELDORF - QUOTRIX MTF (DUSD)	2,5%	3,9%	0,0%	0,0%	26,2%

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity band 1 and 2 (from 0 to 79 trades per day)				
	N				
Notification if < 1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
TRADEGATE EXCHANGE - FREIVERKEHR (XGAT)	47,6%	55,8%	0,0%	0,0%	70,4%
BOERSE FRANKFURT - FREIVERKEHR (FRAB)	8,0%	12,1%	0,0%	0,0%	93,5%
BOERSE STUTTGART - FREIVERKEHR (STUB)	5,0%	7,3%	0,0%	0,0%	72,0%
XETRA - FREIVERKEHR (XETB)	4,8%	5,4%	34,8%	52,5%	99,6%
XETRA - REGULIERTER MARKT (XETA)	4,7%	5,5%	37,2%	51,2%	99,1%

Class of Instrument	Debt instruments Bonds				
	N				
Notification if < 1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BOERSE STUTTGART - FREIVERKEHR (STUB)	34,1%	36,4%	0,0%	0,0%	58,1%
BOERSE DUESSELDORF - QUOTRIX MTF (DUSD)	21,2%	25,3%	0,0%	0,0%	10,7%
DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt am Main	16,2%	7,9%	0,0%	0,0%	95,1%
BOERSE FRANKFURT - FREIVERKEHR (FRAB)	5,9%	9,0%	0,0%	0,0%	88,2%
TRADEGATE EXCHANGE - FREIVERKEHR (XGAT)	4,9%	11,1%	0,0%	0,0%	76,3%

Class of Instrument	Debt instruments Money markets instruments				
	N				
Notification if < 1 average trade per business day in the previous year	N				

Top five investment firms

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity bands 5 and 6 (from 2000 trades per day)				
	N				
Notification if < 1 average trade per business day in the previous year	N				
Top five investment firms ranked 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
ICF BANK AG Wertpapierhandelsbank (529900E89HA145HB613)	18,5%	1,9%	0,0%	0,0%	77,9%
Virtu Financial Ireland Limited (549300XG5LFGN1IGYC71)	0,4%	0,3%	0,0%	0,0%	35,0%
KCG EUROPE LIMITED (549300346EFUPFCXJT79)	0,1%	0,1%	0,0%	0,0%	100,0%
UBS Limited (REYPIEJN7XZHSUI0N355)	0,0%	0,0%	0,0%	0,0%	100,0%

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)				
	N				
Notification if < 1 average trade per business day in the previous year	N				
Top five investment firms ranked 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
ICF BANK AG Wertpapierhandelsbank (529900E89HA145HB613)	13,0%	2,0%	0,0%	0,0%	81,5%
KCG EUROPE LIMITED (549300346EFUPFCXJT79)	0,3%	0,1%	0,0%	0,0%	100,0%
Virtu Financial Ireland Limited (549300XG5LFGN1IGYC71)	0,3%	0,2%	0,0%	0,0%	69,2%
UBS Limited (REYPIEJN7XZHSUI0N355)	0,0%	0,0%	0,0%	0,0%	100,0%
Raiffeisen Centrobank AG (529900M2F7D5795H1A49)	0,0%	0,0%	0,0%	0,0%	100,0%

Class of Instrument	Equities - Shares & Depository Receipts Tick size liquidity band 1 and 2 (from 0 to 79 trades per day)				
	N				
Notification if < 1 average trade per business day in the previous year	N				
Top five investment firms ranked 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
ICF BANK AG Wertpapierhandelsbank (529900E89HA145HB613)	15,3%	2,9%	0,0%	0,0%	84,7%
UBS Limited (REYPIEJN7XZHSUI0N355)	1,0%	0,0%	0,0%	0,0%	100,0%
UBS AG (BFM8T61CT2L1QCCEMIK50)	0,8%	0,0%	0,0%	0,0%	100,0%
Virtu Financial Ireland Limited (549300XG5LFGN1IGYC71)	0,6%	0,2%	0,0%	0,0%	71,7%
KCG EUROPE LIMITED (549300346EFUPFCXJT79)	0,2%	0,1%	0,0%	0,0%	100,0%

Class of Instrument	Debt instruments Bonds				
	N				
Notification if < 1 average trade per business day in the previous year	N				
Top five investment firms ranked 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
Intesa Sanpaolo Bank Luxembourg (549300H62SNDR0PS319)	0,2%	0,1%	0,0%	0,0%	51,3%
ICF BANK AG Wertpapierhandelsbank (529900E89HA145HB613)	0,0%	0,1%	0,0%	0,0%	95,7%
Bayerische Landesbank (VDYMYTQGZZ6DU0912C88)	0,0%	0,0%	0,0%	0,0%	100,0%
VR-Bank Memmingen eG (529900KLYIW1ERXXLT61)	0,0%	0,0%	0,0%	0,0%	0,0%
Deutsche Bank Aktiengesellschaft (7LTFWZYICNSX8D621K86)	0,0%	0,0%	0,0%	0,0%	100,0%

Class of Instrument	Debt instruments Money markets instruments				
	N				
Notification if < 1 average trade per business day in the previous year	N				

Top five execution venues

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
BOERSE STUTTGART - FREIVERKEHR (STUB)	43,4%	41,5%	0,0%	0,0%	54,8%
BOERSE DUESSELDORF - QUOTRIX MTF (DUSD)	21,9%	27,0%	0,0%	0,0%	9,7%
BOERSE FRANKFURT - FREIVERKEHR (FRAB)	8,0%	11,6%	0,0%	0,0%	89,0%
TRADEGATE EXCHANGE - FREIVERKEHR (XGAT)	6,0%	9,8%	0,0%	0,0%	80,4%
DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt am Main	4,7%	3,1%	0,0%	0,0%	98,1%

Class of Instrument	Interest rates derivatives Futures and options admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year	Y				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt am Main	52,9%	27,9%	0,0%	0,0%	100,0%
EUREX DEUTSCHLAND (XEUR)	46,1%	70,5%	0,0%	100,0%	100,0%

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

Top five investment firms

Top five investment firms ranked 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
Intesa Sanpaolo Bank Luxembourg (549300H62SNDRT0PS319)	0,1%	0,0%	0,0%	0,0%	100,0%

Class of Instrument	Interest rates derivatives Futures and options admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms ranked 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

Class of Instrument	Interest rates derivatives Swaps, forwards, and other interest rates derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms ranked 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

Top five execution venues

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

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

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

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

Class of Instrument	Structured finance instruments				
Notification if < 1 average trade per business day in the previous year	N				

Top five investment firms

Class of Instrument	Credit derivatives Futures and options admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms ranked 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

Class of Instrument	Credit derivatives Other credit derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms ranked 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

Class of Instrument	Currency derivatives Futures and options admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms ranked 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

Class of Instrument	Currency derivatives Swaps, forwards, and other currency derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms ranked 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

Class of Instrument	Structured finance instruments				
Notification if < 1 average trade per business day in the previous year	N				

Top five execution venues

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
BOERSE STUTTGART - FREIVERKEHR (STUB)	89,7%	88,0%	0,0%	0,0%	16,4%
BOERSE FRANKFURT - FREIVERKEHR (FRAB)	5,5%	8,5%	0,0%	0,0%	88,7%
DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt am Main	1,2%	0,2%	0,0%	0,0%	76,2%
BOERSE DUESSELDORF - QUOTRIX MTF (DUSD)	0,2%	0,3%	0,0%	0,0%	3,2%
BOERSE DUESSELDORF - FREIVERKEHR (DUSB)	0,1%	0,1%	0,0%	0,0%	100,0%

Class of Instrument	Equity derivatives Options and futures admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
EUREX DEUTSCHLAND (XEUR)	89,5%	88,5%	71,9%	27,1%	100,0%

Top five investment firms

Top five investment firms ranked 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
BNP PARIBAS ARBITRAGE (6EWKU0FGVX5QQJHFGT48)	0,3%	0,7%	0,0%	0,0%	100,0%
Intesa Sanpaolo Bank Luxembourg (549300H62SNDRT0PS319)	0,0%	0,1%	0,0%	0,0%	100,0%
HSBC TRINKAUS & BURKHARDT AG (JUNT405OW8OY5GN4DX16)	0,0%	0,0%	0,0%	0,0%	100,0%
ICF BANK AG Wertpapierhandelsbank (529900E89HA1I45HB613)	0,0%	0,1%	0,0%	0,0%	100,0%

Class of Instrument	Equity derivatives Options and futures admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms ranked 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

Top five execution venues

Class of Instrument	Equity derivatives Swaps and other equity derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Securitized Derivatives Warrants and Certificate Derivatives				
Notification if < 1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BOERSE STUTTGART - FREIVERKEHR (STUB)	64,1%	61,5%	0,0%	0,0%	82,7%
BOERSE FRANKFURT - FREIVERKEHR (FRAB)	22,9%	29,3%	0,0%	0,0%	88,4%
BOERSE DUESSELDORF - QUOTRIX MTF (DUSD)	2,8%	1,4%	0,0%	0,0%	3,7%
XETRA - REGULIERTER MARKT (XETA)	2,6%	1,4%	14,7%	73,2%	96,2%
DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt am Main	2,1%	4,0%	0,0%	0,0%	97,7%

Class of Instrument	Securitized Derivatives Other securitized derivatives				
Notification if < 1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BOERSE STUTTGART - FREIVERKEHR (STUB)	35,2%	56,2%	0,0%	0,0%	53,3%
BOERSE FRANKFURT - FREIVERKEHR (FRAB)	34,0%	24,1%	0,0%	0,0%	99,9%
DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt am Main	8,8%	13,2%	0,0%	0,0%	100,0%

Class of Instrument	Commodities derivatives and emission allowances derivatives Options and futures admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year	Y				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

Class of Instrument	Commodities derivatives and emission allowances derivatives Other commodities derivatives and emission allowances derivatives				
Notification if < 1 average trade per business day in the previous year	Y				

Top five investment firms

Class of Instrument	Equity derivatives Swaps and other equity derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms ranked 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

Class of Instrument	Securitized Derivatives Warrants and Certificate Derivatives				
Notification if < 1 average trade per business day in the previous year	N				
Top five investment firms ranked 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
HSBC TRINKAUS & BURKHARDT AG (JUNT405OW8OY5GN4DX16)	0,2%	0,2%	0,0%	0,0%	0,0%
BNP Paribas Emissions- und Handelsgesellschaft mbH	0,0%	0,0%	0,0%	0,0%	50,0%
Credit Suisse Securities (Europe) Limited (DL6FFRRL74S01HE2M14)	0,0%	0,0%	0,0%	0,0%	96,0%
BNP PARIBAS ARBITRAGE (6EWKU0FGVX5QQJHFGT48)	0,0%	0,0%	0,0%	0,0%	100,0%
UniCredit Bank AG (2ZCNRR8UK83OBTEK2170)	0,0%	0,0%	0,0%	0,0%	100,0%

Class of Instrument	Securitized Derivatives Other securitized derivatives				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms ranked 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

Class of Instrument	Commodities derivatives and emission allowances derivatives Options and futures admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms ranked 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

Class of Instrument	Commodities derivatives and emission allowances derivatives Other commodities derivatives and emission allowances derivatives				
Notification if < 1 average trade per business day in the previous year	Y				

Top five execution venues

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

Top five investment firms

Top five investment firms ranked 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

Top five execution venues

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

Class of Instrument	Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)				
Notification if < 1 average trade per business day in the previous year	N				
Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XETRA - REGULIERTER MARKT (XETA)	34,0%	23,1%	13,6%	71,1%	99,3%
BOERSE DUESSELDORF - QUOTRIX MTF (DUSD)	31,5%	34,4%	0,0%	0,0%	2,6%
TRADEGATE EXCHANGE - FREIVERKEHR (XGAT)	7,8%	15,0%	0,0%	0,0%	98,6%
BOERSE STUTTGART - FREIVERKEHR (STUB)	4,2%	4,6%	0,0%	0,0%	97,2%
BOERSE FRANKFURT - REGULIERTER MARKT (FRAA)	2,1%	4,4%	0,0%	0,0%	74,7%

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

Class of Instrument	Other instruments				
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Top five investment firms

Class of Instrument	Contracts for difference				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms ranked 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

Class of Instrument	Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)				
Notification if < 1 average trade per business day in the previous year	N				
Top five investment firms ranked 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
ICF BANK AG Wertpapierhandelsbank (529900E89HA1I45HB613)	7,2%	0,7%	0,0%	0,0%	75,4%
COMMERZBANK Aktiengesellschaft (851WYGNLUQLFZBSYGB56)	4,2%	7,1%	0,0%	0,0%	72,6%
Flow Traders B.V. (549300CLJ9XDH12XV51)	1,7%	2,7%	0,0%	0,0%	60,9%
Jane Street Financial Limited (549300ZHEHX8M31RP142)	0,5%	1,3%	0,0%	0,0%	68,0%
Raiffeisen Centrobank AG (529900M2F7D5795H1A49)	0,3%	0,4%	0,0%	0,0%	71,2%

Class of Instrument	Emission allowances				
Notification if < 1 average trade per business day in the previous year	Y				
Top five investment firms ranked 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

Class of Instrument	Other instruments				
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