

Professional Client Types

(a) Equities: Tick Size Liquidity Band 1 and 2	
Class of Instrument	
Notification if <1 average trade per business day in the previous year	N
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class
BOA - MERRILL LYNCH (GGDZP1UYGU9STUH RDP48)	29,4%
CITIGROUP (XKZZ2JZF41MRHTR1 V493)	21,4%
JP MORGAN CHASE (7H6GLXDRUGQFU57 RNE97)	12,2%
SOCIETE GENERALE (O2RNE8IBXP4R0TD8 PU41)	9,9%
CREDIT SUISSE (549300CWR0W0BCS 9Q144)	6,7%
Top 5 Total	79,7%
(a) Equities: Tick Size Liquidity Band 3 and 4	
Class of Instrument	
Notification if <1 average trade per business day in the previous year	N
Top five brokers ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class
UNICREDIT (2ZCNRR8UK83OBTEK 2170)	13,6%
SOCIETE GENERALE (O2RNE8IBXP4R0TD8 PU41)	12,4%
EXANE (969500UP76J52A90 XU27)	12,0%

NOMURA (213800MXAKR2LA1V BM44)	11,6%	7,0%	N/A	N/A	N/A
LIQUIDNET (2138005N5TO2UJR6 7136)	9,9%	4,1%	N/A	N/A	N/A
Top 5 Total	59,4%	49,8%	N/A	N/A	N/A

(a) Equities: Tick Size Liquidity Band 5 and 6					
Class of Instrument	N				
Notification if <1 average trade per business day in the previous year	N				
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
BOA - MERRILL LYNCH (GGDZP1UYGU9STUH RDP48)	13,3%	12,3%	N/A	N/A	N/A
EXANE (969500UP76J52A9O XU27)	13,2%	15,9%	N/A	N/A	N/A
CITIGROUP (XKZZ2JZF41MRHTR1 V493)	12,6%	11,2%	N/A	N/A	N/A
MORGAN STANLEY (4PQUHN3JPFGFNF3B B653)	12,0%	14,4%	N/A	N/A	N/A
SOCIETE GENERALE (O2RNE8IBXP4R0TD8 PU41)	11,1%	12,0%	N/A	N/A	N/A
Top 5 Total	62,3%	65,8%	N/A	N/A	N/A

(b) Debt Instruments (Bonds)					
Class of Instrument	N				
Notification if <1 average trade per business day in the previous year	N				
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
TradeWeb Europe Ltd (2138001WXZQOPMP A3D50)	41,9%	45,5%	N/A	N/A	N/A

Bloomberg Trading Facility BV (BTFE)	23,9%	9,6%	N/A	N/A	N/A
Bloomberg Trading Facility Ltd(BMTF)	14,4%	19,1%	N/A	N/A	N/A
MarketAxess NL B.V.(MANL)	5,5%	11,3%	N/A	N/A	N/A
TradeWeb EU B.V. (549300MII67ES5YBJ H61)	3,9%	1,5%	N/A	N/A	N/A
Top 5 Total	89,6%	87,0%	N/A	N/A	N/A

Class of Instrument	(b) Debt Instruments (Money markets instruments)				
Notification if <1 average trade per business day in the previous year	N				
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 CHASE (549300ZK53CNGEEI6 A29)	31,7%	18,9%	N/A	N/A	N/A
GOLDMAN SACHS (W22LROWP2IHZNBB 6K528)	19,5%	5,4%	N/A	N/A	N/A
BOA - MERRILL LYNCH (EQYXK86SF381Q21S 3020)	14,3%	3,8%	N/A	N/A	N/A
TradeWeb Europe Ltd (2138001WXZQOPMP A3D50)	13,3%	34,1%	N/A	N/A	N/A
TradeWeb EU B.V. (2138001WXZQOPMP A3D50)	9,0%	22,7%	N/A	N/A	N/A
Top 5 Total	87,8%	84,9%	N/A	N/A	N/A

Class of Instrument	(c) Interest rates derivatives				
Notification if <1 average trade per business day in the previous year	N				
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

CREDIT AGRICOLE GROUP (2138007P96W5GXQ C JL28)	18,5%	17,7%	N/A	N/A	N/A
UBS (5299007QVIQ71O64 NX37)	15,0%	12,6%	N/A	N/A	N/A
SOCIETE GENERALE (O2RNE8IBXP4R0TD8 PU41)	14,4%	19,1%	N/A	N/A	N/A
MORGAN STANLEY (54930056FHWP7GI WYY08)	13,0%	12,3%	N/A	N/A	N/A
JP MORGAN CHASE (549300ZK53CNGEEI6 A29)	12,1%	8,3%	N/A	N/A	N/A
Top 5 Total	73,1%	69,9%	N/A	N/A	N/A

Class of Instrument	(e) Currency derivatives				
Notification if <1 average trade per business day in the previous year	N				
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
Financial & Risk Transaction Services Ireland Limited - FXall RFQ	81,8%	91,6%	N/A	N/A	N/A
HSBC (F0HUI1NY1AZMJMD 8LP67)	7,3%	0,7%	N/A	N/A	N/A
JP MORGAN CHASE (549300ZK53CNGEEI6 A29)	3,7%	0,2%	N/A	N/A	N/A
Bloomberg Trading Facility Ltd (BMTF)	1,8%	3,3%	N/A	N/A	N/A
SOCGEN (O2RNE8IBXP4R0TD8 PU41)	1,0%	0,3%	N/A	N/A	N/A
Top 5 Total	95,6%	96,0%	N/A	N/A	N/A

Class of Instrument	(g) Equity Derivatives
Notification if <1 average trade per business day in the previous year	N

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
CREDIT AGRICOLE GROUP (2138007P96W5GXQ C JL28)	16,0%	17,8%	N/A	N/A	N/A
MORGAN STANLEY (54930056FHWP7GI WYY08)	14,6%	5,2%	N/A	N/A	N/A
SOCIETE GENERALE (O2RNE8IBXP4R0TD8 PU41)	14,3%	14,1%	N/A	N/A	N/A
BOA - MERRILL LYNCH (549300FHOWJAPEHT IQ77)	13,7%	1,9%	N/A	N/A	N/A
JP MORGAN CHASE (549300ZK53CN GEEI6 A29)	10,6%	2,0%	N/A	N/A	N/A
Top 5 Total	69,1%	41,0%	N/A	N/A	N/A

Class of Instrument	(k) Exchange Traded Products (ETF)				
Notification if <1 average trade per business day in the previous year	N				
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
Tradeweb EU B.V. (549300MII67ES5YBJ H61)	79,0%	68,1%	N/A	N/A	N/A
Tradeweb Europe Limited (2138001WXZQOPMP A3D50)	12,8%	9,1%	N/A	N/A	N/A
UBS (5299007QVIQ71O64 NX37)	7,7%	19,3%	N/A	N/A	N/A
KEPLER - CHEUVREUX (9695005EOZG9X8IRJ D84)	0,4%	2,5%	N/A	N/A	N/A
SOCIETE GENERALE (O2RNE8IBXP4R0TD8 PU41)	0,1%	1,0%	N/A	N/A	N/A
Top 5 Total	100,0%	100,0%	N/A	N/A	N/A

Class of Instrument	(m) Convertibles Bonds				
Notification if <1 average trade per business day in the previous year	N				
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
TradeWeb Europe Ltd (2138001WXZQOPMP A3D50)	62,4%	58,7%	N/A	N/A	N/A
BNP PARIBAS (ROMUWSFPU8MPRO 8K5P83)	8,7%	6,7%	N/A	N/A	N/A
JP MORGAN CHASE (549300ZK53CNGEEI6 A29)	5,3%	6,7%	N/A	N/A	N/A
CITIGROUP (XKZZ2JZF41MRHTR1 V493)	3,9%	2,9%	N/A	N/A	N/A
ODDO (9695002I9DJHZ3449 O66)	2,7%	3,8%	N/A	N/A	N/A
Top 5 Total	83,0%	78,8%	N/A	N/A	N/A