



Transaction report 2021

Equities - Shares & Depositary Receipts

Class of Instrument	Liquidity Band A+B					
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)	LEI	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
Instinet Europe Limited	213800A7BEQATAOUAN40	54,0	96,3	50,4	49,6	100,0
Cantor Fitzgerald Europe	549300KM6VUHPKQLQX53	35,8	96,3	55,1	44,9	100,0
Virtu Financial Ireland Limited	213800EEC95PRUCEUP63	7,2	95,0	79,8	20,2	100,0
MIB Securities (Hong Kong) Ltd.	254900JOZO98RSYZ3694	1,3	96,6	68,4	31,7	100,0
DBS Vickers Singapore PTE Ltd.	549300O3J3YO6S614573	0,7	89,4	63,8	36,3	100,0

*Notice: Securities with no Liquidity Band classification are in this category listed

Class of Instrument	Liquidity Band C+D					
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)	LEI	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
Cantor Fitzgerald Europe	549300KM6VUHPKQLQX53	80,2	94,5	82,8	17,2	100,0
Instinet Europe Limited	213800A7BEQATAOUAN40	15,7	95,3	34,8	65,2	100,0
Virtu Financial Ireland Limited	213800EEC95PRUCEUP63	2,3	96,6	58,5	41,5	100,0
Citigroup Global Market Ltd.	XKZZ2JZF41MRHTR1V493	0,8	100,0	100,0	0,0	100,0
Marcard, Stein und Co AG	529900CK14SGH0EXOB27	0,1	100,0	0,0	100,0	100,0



Class of Instrument	Liquidity Band E+F					
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)	LEI	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
Instinet Europe Limited	213800A7BEQATAOUAN40	38,9	98,6	13,8	86,2	100,0
Cantor Fitzgerald Europe	549300KM6VUHPKQLQX53	20,0	99,3	20,0	80,0	100,0
Virtu Financial Ireland Limited	213800EEC95PRUCEUP63	14,3	96,3	23,2	76,8	100,0
1st Capital Management Group GmbH	529900ISPKUVG8HSQD34	9,1	99,1	9,6	90,4	100,0
Marcard, Stein und Co AG	529900CK14SGH0EXOB27	5,2	100,0	0,0	100,0	100,0

Debt Instruments / Bonds

Class of Instrument	Debt instruments <397 days to maturity					
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)	LEI	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
J.P. Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	23,1	100,0	12,9	87,1	100,0
Citigroup Global Markets Ltd.	XKZZ2JZF41MRHTR1V493	16,3	100,0	0,0	100,0	100,0
HSBC Trinkaus und Burkhardt AG	JUNT405OW8OY5GN4DX16	15,3	100,0	18,8	81,3	100,0
Goldman Sachs International	W22LROWP2IHZNBB6K528	15,1	100,0	0,0	100,0	100,0
M.M.Warbug & CO (AG & Co.)	MZI1VDH2BQLFZGLQDO60	7,4	97,4	80,5	19,5	100,0



Class of Instrument	Debt instruments > 397 days to maturity					
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)	LEI	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
BMO Europe PLC	5493000YPN33HF745N02	21,9	100,0	23,1	76,9	100,0
HSBC Trinkaus und Burkhardt AG	JUNT405OW8OY5GN4DX16	9,9	100,0	18,6	81,4	100,0
Stonex Financial Europe S.A.	5493009FOGEUTR4HFR55	9,7	100,0	40,0	60,0	100,0
Marcard, Stein und Co AG	529900CK14SGH0EXOB27	9,1	100,0	28,8	71,2	100,0
M.M.Warbug & CO (AG & Co.)	MZI1VDH2BQLFZGLQDO60	7,5	98,8	17,2	82,8	100,0

Interest Rate Derivates

Class of Instrument	Interest rate derivates / Futures and options					
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)	LEI	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
M.M.Warbug & CO (AG & Co.)	MZI1VDH2BQLFZGLQDO60	59,5	96,7	10,0	90,0	100,0
J.P. Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	40,5	92,3	38,5	61,5	100,0



Credit Derivates

Class of Instrument	Credit Derivates					
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)	LEI	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
-	-	-	-	-	-	-

Currency Derivates

Class of Instrument	Currency Derivates / Futures and Options					
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)	LEI	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
J.P. Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	100,0	100,0	10,5	89,5	100,0

Class of Instrument	Currency Derivates / Swaps, Forwards and other Derivates					
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)	LEI	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
M.M.Warburg & CO (AG & Co.)	MZ11VDH2BQLFZGLQDO60	68,8	100,0	0,0	100,0	100,0
Commerzbank AG	851WYG NLUQLFZBSYGB56	17,9	100,0	0,0	100,0	100,0
Citibank N.A.	549300U8H3KN0K301B23	9,6	100,0	0,0	100,0	100,0
Joh. Berenberg, Gossler & Co.	529900UC2OD7II24Z667	2,3	100,0	0,0	100,0	100,0
Unicredit Bank AG	2ZCNRR8UK83OBTEK2170	1,2	100,0	0,0	100,0	100,0



Credit Derivates and Equity Derivates

Class of Instrument	Structured Finance Instruments					
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)	LEI	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	Equity Derivates / Futures and Options					
Notification if <1 average trade per business day in the previous year	Nein					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	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
J.P. Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	57,8	95,1	19,4	80,6	100,0
M.M.Warburg & CO (AG & Co.)	MZI1VDH2BQLFZGLQDO60	42,2	92,9	26,3	73,7	100,0



Securitised Derivates

Class of Instrument	Securitised Derivates					
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)	LEI	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	Warrants and Certificates					
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)	LEI	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
M.M.Warburg & CO (AG & Co.)	MZ11VDH2BQLFZGLQDO60	74,2	97,6	35,7	64,3	100,0
Unicredit Bank AG	2ZCNRR8UK83OBTEK2170	6,4	100,0	4,1	95,9	100,0
Bank J. Vontobel & Co AG	529900G69W5VR3DDPW23	5,4	100,0	8,3	91,7	100,0
Societe Generale S.A.	O2RNE8IBXP4R0TD8PU41	4,7	100,0	52,2	47,8	100,0
Citi Global Markets Europe AG	6TJCK1B7E7UTXP528Y04	2,0	100,0	18,2	81,8	100,0



Commodity Derivates

Class of Instrument	Commodity derivates / Futures and Options					
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)	LEI	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
J.P. Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	100,0	100,0	0,0	100,0	100,0

Class of Instrument	Commodity Derivates / Others					
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)	LEI	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
-	-	-	-	-	-	-



Contracted for differences and Exchange Traded Products (Funds, ETF)

Class of Instrument	Contract for Differences					
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)	LEI	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 (Funds and ETF)					
Notification if <1 average trade per business day in the previous year						
Top five execution venues ranked in terms of trading volumes (descending order)	LEI	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
Flow Traders B.V.	549300CLJ19XDH12XV51	27,7	100,0	5,0	95,0	100,0
Jane Street Financial Ltd	549300ZHEHX8M31RP142	25,6	98,4	10,2	89,8	100,0
OPTIVER V.O.F.	7245009KRY SAYB2QCC29	8,9	100,0	7,1	92,9	100,0
Marcard, Stein und Co AG	529900CK14SGH0EXOB27	8,9	100,0	0,0	100,0	100,0
Societe Generale S.A.	O2RNE8IBXP4R0TD8PU41	6,4	100,0	7,1	92,9	100,0



Emission Certificates

Class of Instrument	Emission Certificates					
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)	LEI	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
-	-	-	-	-	-	-