



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument AA99
Equity instruments- Shar

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
Morgan Stanley Co Int Ldn (4PQUHN3JPF GFNF3BB653)	99,22%	99,51%	100,00%	0,00%	100,00%
Citigroup Glob Mark Ltd Ldn (XKZZ2JZF41MRHTR1V493)	0,78%	0,49%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument AA99
Equity instruments- Shar

Tick Size liquidity band A and liquidity band B

Information on whether an average of < 1 trade per business day was executed 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
Morgan Stanley Co Int Ldn (4PQUHN3JPF GFNF3BB653)	97,58%	93,37%	100,00%	0,00%	100,00%
Citigroup Glob Mark Ltd Ldn (XKZZ2JZF41MRHTR1V493)	2,42%	6,63%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument AA99
Equity instruments- Shar

Tick Size liquidity band C and liquidity band D

Information on whether an average of < 1 trade per business day was executed 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
Morgan Stanley Co Int Ldn (4PQUHN3JPF GFNF3BB653)	99,13%	99,81%	100,00%	0,00%	100,00%
Citigroup Glob Mark Ltd Ldn (XKZZ2JZF41MRHTR1V493)	0,57%	0,12%	100,00%	0,00%	100,00%
UBS Ltd Ldn (5299007QVIQ7IO64NX37)	0,30%	0,06%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument	AA99				
	Equity instruments- Shar				
Tick Size	liquidity band E and liquidity band F				
Information on whether an average of < 1 trade per business day was executed 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
Morgan Stanley Co Int Ldn (4PQUHN3JPF GFNF3BB653)	98,19%	97,89%	100,00%	0,00%	100,00%
Citigroup Glob Mark Ltd Ldn (XKZZ2JZF41MRHTR1V493)	0,82%	0,73%	100,00%	0,00%	100,00%
UBS Ltd Ldn (5299007QVIQ7IO64NX37)	0,81%	1,31%	100,00%	0,00%	100,00%
Cantor Fitzgerald Ldn (549300KM6VUHPKQLQX53)	0,11%	0,03%	100,00%	0,00%	100,00%
J P Morgan Securities plc (K6Q0W1PS1L1O4IQL9C32)	0,03%	0,03%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument AB99
Equity instruments- Shar

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
Morgan Stanley Co Int Ldn (4PQUHN3JPFGFNF3BB653)	100,00%	100,00%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument AB99
Equity instruments- Shar

Tick Size liquidity band A and liquidity band B

Information on whether an average of < 1 trade per business day was executed 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
Morgan Stanley Co Int Ldn (4PQUHN3JPFQFNF3BB653)	98,57%	99,88%	100,00%	0,00%	100,00%
Citigroup Glob Mark Ltd Ldn (XKZZ2JZF41MRHTR1V493)	1,43%	0,12%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument AB99
Equity instruments- Shar

Tick Size liquidity band C and liquidity band D

Information on whether an average of < 1 trade per business day was executed 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
Morgan Stanley Co Int Ldn (4PQUHN3JPFGFNF3BB653)	91,39%	96,56%	100,00%	0,00%	100,00%
Citigroup Glob Mark Ltd Ldn (XKZZ2JZF41MRHTR1V493)	8,61%	3,44%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument	AC99				
	Exchange traded product				
Tick Size	not used				
Information on whether an average of < 1 trade per business day was executed 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
Morgan Stanley Co Int Ldn (4PQUHN3JPF GFNF3BB653)	99,91%	99,81%	100,00%	0,00%	100,00%
Citigroup Glob Mark Ltd Ldn (XKZZ2JZF41MRHTR1V493)	0,09%	0,19%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument AD99
other instruments

Tick Size liquidity band A and liquidity band B

Information on whether an average of < 1 trade per business day was executed 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
Morgan Stanley Co Int Ldn (4PQUHN3JPFQFNF3BB653)	99,59%	99,56%	100,00%	0,00%	100,00%
Citigroup Glob Mark Ltd Ldn (XKZZ2JZF41MRHTR1V493)	0,41%	0,44%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument AE99
other instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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 (529900HNOAA1KXQJUQ27)	71,39%	45,91%	100,00%	0,00%	100,00%
Rabobk Intern Utrecht (DG3RU1DBUFHT4ZF9WN62)	28,60%	17,66%	100,00%	0,00%	100,00%
Morgan Stanley Co Int Ldn (4PQUHN3JPF GFNF3BB653)	0,02%	36,27%	100,00%	0,00%	100,00%
SIX SIS AG (549300A3XI3YWROC2J57)	0,00%	0,16%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument AE99
other instruments

Tick Size liquidity band A and liquidity band B

Information on whether an average of < 1 trade per business day was executed 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
Morgan Stanley Co Int Ldn (4PQUHN3JPFGFNF3BB653)	100,00%	100,00%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument AE99
other instruments

Tick Size liquidity band C and liquidity band D

Information on whether an average of < 1 trade per business day was executed 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
Morgan Stanley Co Int Ldn (4PQUHN3JPFGFNF3BB653)	100,00%	100,00%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument BA10
Debt instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
Citigroup Glob Mark Ltd Ldn (XKZZ2JZF41MRHTR1V493)	31,15%	27,14%	100,00%	0,00%	100,00%
Commerzbank AG Ffm (851WYGNLUQLFZBSYGB56)	17,66%	19,47%	100,00%	0,00%	100,00%
Natwest Markets PLC Ldn (RR3QWICWWIPCS8A4S074)	9,28%	9,54%	100,00%	0,00%	100,00%
Barclays Bk PLC Ldn (G5GSEF7VJP5I7OUK5573)	8,61%	8,23%	100,00%	0,00%	100,00%
Soc Gen Paris (O2RNE8IBXP4R0TD8PU41)	5,71%	5,94%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument BA11
Debt instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
Landesbk Baden-Württ Stgt (B81CK4ESI35472RHJ606)	32,43%	51,49%	100,00%	0,00%	100,00%
Danske Bk Kop (MAES062Z21O4RZ2U7M96)	15,92%	29,48%	100,00%	0,00%	100,00%
Nordea Bk Stock (529900ODI3047E2LIV03)	11,66%	3,47%	100,00%	0,00%	100,00%
J P Morgan Securities plc (K6Q0W1PS1L1O4IQL9C32)	10,00%	2,97%	100,00%	0,00%	100,00%
DZ Bank AG (529900HNOAA1KXQJUQ27)	8,22%	2,52%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument BA12
Debt instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
UniCredit Bank AG Mün (2ZCNRR8UK83OBTEK2170)	89,60%	88,89%	100,00%	0,00%	100,00%
Jefferies International LTD (S5THZMDUJCTQZBTRVI98)	10,40%	11,11%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument BA13
Debt instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
ABN AMRO Bank N.V. (BFXS5XCH7N0Y05NIXW11)	23,87%	24,04%	100,00%	0,00%	100,00%
UniCredit Bank AG Mün (2ZCNRR8UK83OBTEK2170)	17,68%	17,59%	100,00%	0,00%	100,00%
Banco Santander S A (5493006QMFDDMYWIAM13)	13,74%	13,57%	100,00%	0,00%	100,00%
Citigroup Glob Mark Ltd Ldn (XKZZ2JZF41MRHTR1V493)	12,79%	12,90%	100,00%	0,00%	100,00%
NORD LB Hann (DSNHHQ2B9X5N6OUJ1236)	11,78%	11,78%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument	BA14				
	Debt instruments				
Tick Size	not used				
Information on whether an average of < 1 trade per business day was executed 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
DZ Bank AG (529900HNOAA1KXQJUQ27)	9,88%	9,72%	100,00%	0,00%	100,00%
Merrill Lynch International (GGDZP1UYGU9STUHRDP48)	7,95%	7,95%	100,00%	0,00%	100,00%
BNP Paribas Paris (R0MUWSFPU8MPRO8K5P83)	6,92%	7,02%	100,00%	0,00%	100,00%
Goldman Sachs Int Ldn (W22LROWP2IHZNBB6K528)	6,39%	6,32%	100,00%	0,00%	100,00%
UBS Limited (REYPIEJN7XZHSUI0N355)	5,44%	5,46%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument	BA15				
	Debt instruments				
Tick Size	not used				
Information on whether an average of < 1 trade per business day was executed 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 (529900HNOAA1KXQJUQ27)	13,89%	12,53%	100,00%	0,00%	100,00%
Goldman Sachs Int Ldn (W22LROWP2IHZNBB6K528)	12,02%	10,99%	100,00%	0,00%	100,00%
BNP Paribas Paris (R0MUWSFPU8MPRO8K5P83)	10,78%	9,84%	100,00%	0,00%	100,00%
Barclays Bk PLC Ldn (G5GSEF7VJP5I7OUK5573)	6,37%	5,25%	100,00%	0,00%	100,00%
J P Morgan Securities plc (K6Q0W1PS1L1O4IQL9C32)	5,09%	11,97%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument BD21
Equity derivatives

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
J P Morgan Securities plc (K6Q0W1PS1L1O4IQL9C32)	100,00%	100,00%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument BE21
securitized derivatives

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
M.M. Warburg Bank Schwei iL (529900NP86FPF16CW159)	100,00%	100,00%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument BE22
securitized derivatives

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
Morgan Stanley Co Int Ldn (4PQUHN3JPFGFNF3BB653)	100,00%	100,00%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument C999
no specific classification

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
Morgan Stanley Co Int Ldn (4PQUHN3JPFGFNF3BB653)	100,00%	100,00%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II retail clients financial year 2018

Class of Instrument CA99
Debt instruments

Tick Size not used

Information on whether an average of < 1 trade per business day was executed 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
Natwest Markets PLC Ldn (RR3QWICWWIPCS8A4S074)	100,00%	100,00%	100,00%	0,00%	100,00%