



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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	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
Goldman Sachs Bank Europe (8IBZUGJ7JPLH368JE346)	46,46%	35,60%	100,00%	0,00%	100,00%
Ichiyoshi Securities Co Ltd (353800A8M3VE49QYFV53)	24,72%	18,15%	100,00%	0,00%	100,00%
Goldman Sachs Int Ldn (W22LROWP2IHZNBB6K528)	15,99%	37,27%	100,00%	0,00%	100,00%
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	7,68%	4,96%	100,00%	0,00%	100,00%
Morgan Stanley Co Int Ldn (4PQUHN3JPFGFNF3BB653)	5,16%	4,01%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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 Europe SE (54930056FHWP7GIWYY08)	29,78%	23,03%	100,00%	0,00%	100,00%
Liquidnet EU Limited (2138005N5TO2UJR67I36)	20,87%	6,27%	100,00%	0,00%	100,00%
Goldman Sachs Int Ldn (W22LROWP2IHZNBB6K528)	13,46%	6,37%	100,00%	0,00%	100,00%
Morgan Stanley Co Int Ldn (4PQUHN3JPFGFNF3BB653)	9,15%	12,20%	100,00%	0,00%	100,00%
(213800ZIRB79BE5XQM68)	7,93%	1,61%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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 Europe SE (54930056FHWP7GIWYY08)	34,96%	44,19%	100,00%	0,00%	100,00%
Goldman Sachs Int Ldn (W22LROWP2IHZNBB6K528)	19,26%	23,04%	100,00%	0,00%	100,00%
Morgan Stanley Co Int Ldn (4PQUHN3JPFGFNF3BB653)	18,19%	11,74%	100,00%	0,00%	100,00%
Barclays Bank Ireland PLC (2G5BKIC2CB69PRJH1W31)	6,54%	4,97%	100,00%	0,00%	100,00%
Liquidnet EU Limited (2138005N5TO2UJR67I36)	5,09%	2,78%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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 Europe SE (54930056FHWP7GIWYY08)	51,36%	47,49%	100,00%	0,00%	100,00%
Morgan Stanley Co Int Ldn (4PQUHN3JPF GFNF3BB653)	18,11%	21,28%	100,00%	0,00%	100,00%
Goldman Sachs Int Ldn (W22LROWP2IHZNBB6K528)	6,45%	9,97%	100,00%	0,00%	100,00%
Liquidnet EU Limited (2138005N5TO2UJR67I36)	5,27%	2,72%	100,00%	0,00%	100,00%
(213800ZIRB79BE5XQM68)	3,39%	1,79%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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 Europe SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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 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 Europe SE (54930056FHWP7GIWYY08)	56,19%	34,53%	100,00%	0,00%	100,00%
Morgan Stanley Co Int Ldn (4PQUHN3JPF GFNF3BB653)	18,76%	21,54%	100,00%	0,00%	100,00%
Goldman Sachs Int Ldn (W22LROWP2IHZNBB6K528)	16,93%	24,33%	100,00%	0,00%	100,00%
Goldman Sachs Bank Europe (8IBZUGJ7JPLH368JE346)	7,82%	18,37%	100,00%	0,00%	100,00%
(213800ZIRB79BE5XQM68)	0,29%	1,22%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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 Europe SE (54930056FHWP7GIWYY08)	68,04%	69,60%	100,00%	0,00%	100,00%
Morgan Stanley Co Int Ldn (4PQUHN3JPF GFNF3BB653)	28,07%	14,56%	100,00%	0,00%	100,00%
Goldman Sachs Int Ldn (W22LROWP2IHZNBB6K528)	3,88%	15,85%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

Class of Instrument AB99
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 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 professional clients financial year 2019

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 Europe SE (54930056FHWP7GIWYY08)	48,33%	41,40%	100,00%	0,00%	100,00%
Donner & Reuschel AG (23ZYQ4KSBEDVYML8NC86)	16,97%	20,58%	100,00%	0,00%	100,00%
Morgan Stanley Co Int Ldn (4PQUHN3JPFGFNF3BB653)	11,05%	17,59%	100,00%	0,00%	100,00%
Flow Traders B V (549300CLJI9XDH12XV51)	9,01%	4,77%	100,00%	0,00%	100,00%
Commerzbank AG Ffm (851WYGNLUQLFZBSYGB56)	4,60%	7,46%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

Class of Instrument AC99
Exchange traded product
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
Optiver V.O.F. (7245009KRYSAYB2QCC29)	100,00%	100,00%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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	
(213800ZIRB79BE5XQM68)	45,13%	46,45%	100,00%	0,00%	100,00%	
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	16,60%	14,75%	100,00%	0,00%	100,00%	
UBS Europe SE (5299007QVIQ7IO64NX37)	13,98%	13,54%	100,00%	0,00%	100,00%	
Morgan Stanley Co Int Ldn (4PQUHN3JPFGFNF3BB653)	8,91%	8,95%	100,00%	0,00%	100,00%	
Virtu ITG Europe Limited (213800EEC95PRUCEUP63)	7,67%	7,85%	100,00%	0,00%	100,00%	



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

Class of Instrument AD99
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
Goldman Sachs Int Ldn (W22LROWP2IHZNBB6K528)	100,00%	100,00%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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
OCTO FINANCES SA (969500378YE4MLGK0898)	60,64%	56,80%	100,00%	0,00%	100,00%
Goldman Sachs Int Ldn (W22LROWP2IHZNBB6K528)	35,17%	35,26%	100,00%	0,00%	100,00%
Morgan Stanley Co Int Ldn (4PQUHN3JPFGFNF3BB653)	4,18%	3,92%	100,00%	0,00%	100,00%
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	0,01%	4,02%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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 Europe SE (54930056FHWP7GIWYY08)	53,01%	55,82%	100,00%	0,00%	100,00%
Goldman Sachs Int Ldn (W22LROWP2IHZNBB6K528)	25,42%	3,74%	100,00%	0,00%	100,00%
Virtu ITG Europe Limited (213800EEC95PRUCEUP63)	12,47%	1,87%	100,00%	0,00%	100,00%
Morgan Stanley Co Int Ldn (4PQUHN3JPFGFNF3BB653)	9,10%	38,57%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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 Europe SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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
Deutsche Bk Ffm (7LTFZYICNSX8D621K86)	15,77%	13,71%	100,00%	0,00%	100,00%
Barclays Bk PLC Ldn (G5GSEF7VJP5I7OUK5573)	8,13%	8,09%	100,00%	0,00%	100,00%
NatWest Markets N.V. (X3CZP3CK64YBHON1LE12)	6,65%	7,27%	100,00%	0,00%	100,00%
Citigroup Glob Mark Ltd Ldn (XKZZ2JZF41MRHTR1V493)	6,13%	6,04%	100,00%	0,00%	100,00%
Barclays Bank PLC Ireland (2G5BKIC2CB69PRJH1W31)	5,20%	4,85%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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
Rabobk Intern Utrecht (DG3RU1DBUFHT4ZF9WN62)	14,00%	11,37%	100,00%	0,00%	100,00%
UniCredit Bank AG Mün (2ZCNRR8UK83OBTEK2170)	10,42%	8,65%	100,00%	0,00%	100,00%
BayernLB Mue (VDYMYTQGZZ6DU0912C88)	8,57%	6,99%	100,00%	0,00%	100,00%
Goldman Sachs Int Ldn (W22LROWP2IHZNBB6K528)	7,78%	6,08%	100,00%	0,00%	100,00%
NATIXIS S A (KX1WK48MPD4Y2NCUIZ63)	7,46%	6,10%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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)	64,67%	69,32%	100,00%	0,00%	100,00%
Goldman Sachs Bk Europe SE (8IBZUGJ7JPLH368JE346)	19,45%	12,09%	100,00%	0,00%	100,00%
Intesa Sanpaolo S.p.A. (2W8N8UU78PMDQKZENC08)	11,46%	13,51%	100,00%	0,00%	100,00%
Barclays Bk PLC Ldn (G5GSEF7VJP5I7OUK5573)	3,21%	3,55%	100,00%	0,00%	100,00%
J P Morgan Securities plc (K6Q0W1PS1L1O4IQL9C32)	0,64%	0,71%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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
J P Morgan SE FFM (549300ZK53CNGEEI6A29)	43,64%	43,34%	100,00%	0,00%	100,00%
J P Morgan Securities plc (K6Q0W1PS1L1O4IQL9C32)	8,79%	8,91%	100,00%	0,00%	100,00%
NORD LB Hann (DSNHHQ2B9X5N6OUJ1236)	7,55%	7,42%	100,00%	0,00%	100,00%
BNP Paribas Paris (R0MUWSFPU8MPRO8K5P83)	6,84%	6,82%	100,00%	0,00%	100,00%
Banco Santander S A (5493006QMFDDMYWIAM13)	5,73%	5,74%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	5,51%	5,24%	100,00%	0,00%	100,00%
BNP Paribas Paris (R0MUWSFPU8MPRO8K5P83)	4,85%	4,76%	100,00%	0,00%	100,00%
Credit Agricole Corp & Inv (1VUV7VQFKUOQSJ21A208)	4,10%	4,04%	100,00%	0,00%	100,00%
Jane Street Financial Ltd. (549300ZHEHX8M31RP142)	4,00%	3,82%	100,00%	0,00%	100,00%
Royal Bk of Can Europe Ldn (TXDSU46SXBWIGJ8G8E98)	3,87%	3,96%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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
Toronto Dominion Bk Ldn (PT3QB789TSUIDF371261)	9,23%	12,98%	100,00%	0,00%	100,00%
HSBC Trinkaus Dssd (JUNT405OW8OY5GN4DX16)	7,11%	5,95%	100,00%	0,00%	100,00%
BofA Securities Europe SA (549300FH0WJAPEHTIQ77)	6,55%	6,43%	100,00%	0,00%	100,00%
Rabobk Intern Utrecht (DG3RU1DBUFHT4ZF9WN62)	6,16%	5,79%	100,00%	0,00%	100,00%
Barclays Bk PLC Ldn (G5GSEF7VJP5I7OUK5573)	6,12%	6,06%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

Class of Instrument	BB99				
	Structured financial prod				
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
Citigroup Glob Mark Ltd Ldn (XKZZ2JZF41MRHTR1V493)	50,81%	51,31%	100,00%	0,00%	100,00%
Goldman Sachs Int Ldn (W22LROWP2IHZNBB6K528)	21,01%	20,94%	100,00%	0,00%	100,00%
HSBC Trinkaus Dssd (JUNT405OW8OY5GN4DX16)	11,95%	10,99%	100,00%	0,00%	100,00%
J P Morgan Securities plc (K6Q0W1PS1L1O4IQL9C32)	7,99%	8,38%	100,00%	0,00%	100,00%
Morgan Stanley Co Int Ldn (4PQUHN3JPFQFNF3BB653)	4,01%	4,19%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

Class of Instrument	BD10 other 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
J P Morgan SE FFM (549300ZK53CNGEEI6A29)	72,48%	71,62%	100,00%	0,00%	100,00%
J P Morgan Securities plc (K6Q0W1PS1L1O4IQL9C32)	27,52%	28,38%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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 SE FFM (549300ZK53CNGEEI6A29)	84,03%	87,24%	100,00%	0,00%	100,00%
J P Morgan Securities plc (K6Q0W1PS1L1O4IQL9C32)	15,97%	12,76%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

Class of Instrument BD24
Currency 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
J P Morgan SE FFM (549300ZK53CNGEEI6A29)	96,07%	96,06%	100,00%	0,00%	100,00%
J P Morgan Securities plc (K6Q0W1PS1L1O4IQL9C32)	3,93%	3,94%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

Class of Instrument	BD99 other 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 SE FFM (549300ZK53CNGEEI6A29)	92,09%	89,55%	100,00%	0,00%	100,00%
J P Morgan Securities plc (K6Q0W1PS1L1O4IQL9C32)	7,91%	10,45%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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 professional clients financial year 2019

Class of Instrument BE23
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
UniCredit Bank AG Mün (2ZCNRR8UK83OBTEK2170)	100,00%	100,00%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

Class of Instrument BF99
 Exchange traded product

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 Europe SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%



Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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 professional clients financial year 2019

Class of Instrument C999
no specific classification

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 Europe SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%



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Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2019

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
Nordea Bk Finland Hels (529900ODI3047E2LIV03)	53,22%	63,57%	100,00%	0,00%	100,00%
Skandi Enskilda Bk Stock (F3JS33DEI6XQ4ZBPTN86)	28,16%	33,94%	100,00%	0,00%	100,00%
Citibk NY (E57ODZWZ7FF32TWEFA76)	15,78%	2,10%	100,00%	0,00%	100,00%
Natwest Markets PLC Ldn (RR3QWICWWIPCS8A4S074)	2,85%	0,39%	100,00%	0,00%	100,00%