



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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
Deutsche Bk Ffm (7LTFZYICNSX8D621K86)	91,59%	47,37%	100,00%	0,00%	100,00%
Goldman Sachs Bank Europe (8IBZUGJ7JPLH368JE346)	3,21%	5,25%	100,00%	0,00%	100,00%
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	2,86%	42,55%	100,00%	0,00%	100,00%
Ichiyoshi Securities Co Ltd (353800A8M3VE49QYFV53)	1,86%	4,76%	100,00%	0,00%	100,00%
Morgan Stanley & Co. Korea ( )	0,48%	0,08%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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)	64,01%	65,76%	100,00%	0,00%	100,00%
Baader Bank AG (529900JFOPPEDUR61H13)	11,29%	0,55%	100,00%	0,00%	100,00%
Goldman Sachs Bank Europe (8IBZUGJ7JPLH368JE346)	11,10%	19,35%	100,00%	0,00%	100,00%
Jefferies International Ltd (S5THZMDUJCTQZBTRVI98)	10,09%	0,65%	100,00%	0,00%	100,00%
Liquidnet EU Limited (2138005N5TO2UJR67I36)	1,48%	0,42%	100,00%	0,00%	100,00%



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## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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 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
Jefferies International Ltd (S5THZMDUJCTQZBTRVI98)	38,34%	1,05%	100,00%	0,00%	100,00%
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	37,61%	44,25%	100,00%	0,00%	100,00%
Goldman Sachs Bank Europe (8IBZUGJ7JPLH368JE346)	9,64%	46,54%	100,00%	0,00%	100,00%
Baader Bank AG (529900JFOPPEDUR61H13)	6,40%	0,17%	100,00%	0,00%	100,00%
Liquidnet EU Limited (2138005N5TO2UJR67I36)	6,20%	3,25%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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)	47,30%	63,04%	100,00%	0,00%	100,00%
Jefferies International Ltd (S5THZMDUJCTQZBTRVI98)	24,90%	6,56%	100,00%	0,00%	100,00%
Baader Bank AG (529900JFOPPEDUR61H13)	19,12%	7,14%	100,00%	0,00%	100,00%
Goldman Sachs Bank Europe (8IBZUGJ7JPLH368JE346)	3,78%	11,07%	100,00%	0,00%	100,00%
Liquidnet EU Limited (2138005N5TO2UJR67I36)	2,10%	3,54%	100,00%	0,00%	100,00%



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## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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
J P Morgan SE FFM (549300ZK53CNGEEI6A29)	99,89%	99,70%	100,00%	0,00%	100,00%
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	0,11%	0,30%	100,00%	0,00%	100,00%



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## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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 Europe SE (54930056FHWP7GIWYY08)	75,00%	55,63%	100,00%	0,00%	100,00%
Goldman Sachs Bank Europe (8IBZUGJ7JPLH368JE346)	25,00%	44,37%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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 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)	100,00%	100,00%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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 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)	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 2020

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
Jane Street Financial Ltd. (549300ZHEHX8M31RP142)	27,50%	29,30%	100,00%	0,00%	100,00%
Flow Traders B V (549300CLJ9XDH12XV51)	25,22%	33,43%	100,00%	0,00%	100,00%
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	24,95%	18,38%	100,00%	0,00%	100,00%
Optiver V.O.F. (7245009KRY SAYB2QCC29)	15,53%	12,88%	100,00%	0,00%	100,00%
Donner & Reuschel AG (23ZYQ4KS BEDVYML8NC86)	6,07%	5,47%	100,00%	0,00%	100,00%



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## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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)	51,35%	51,36%	100,00%	0,00%	100,00%	
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	48,65%	48,64%	100,00%	0,00%	100,00%	



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## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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	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)	66,01%	61,67%	100,00%	0,00%	100,00%	
Liquidnet EU Limited (2138005N5TO2UJR67I36)	21,20%	19,50%	100,00%	0,00%	100,00%	
UBS Europe SE (5299007QVIQ7IO64NX37)	6,52%	5,84%	100,00%	0,00%	100,00%	
Goldman Sachs Bank Europe (8IBZUGJ7JPLH368JE346)	6,28%	12,99%	100,00%	0,00%	100,00%	



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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 Bank Europe (8IBZUGJ7JPLH368JE346)	100,00%	100,00%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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	
Jefferies International LTD (S5THZMDUJCTQZBTRVI98)	56,87%	25,85%	100,00%	0,00%	100,00%	
Goldman Sachs Bk Europe SE (8IBZUGJ7JPLH368JE346)	42,93%	18,09%	100,00%	0,00%	100,00%	
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	0,20%	56,06%	100,00%	0,00%	100,00%	



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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)	100,00%	100,00%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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 2020

Class of Instrument AE99  
other instruments

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





## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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 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
HSBC Trinkaus Dssd (JUNT405OW8OY5GN4DX16)	11,18%	11,94%	100,00%	0,00%	100,00%
NatWest Markets N.V. (X3CZP3CK64YBHON1LE12)	9,50%	9,51%	100,00%	0,00%	100,00%
BofA Securities Europe SA (549300FH0WJAPEHTIQ77)	7,30%	7,54%	100,00%	0,00%	100,00%
Barclays Bank PLC Ireland (2G5BKIC2CB69PRJH1W31)	6,43%	6,10%	100,00%	0,00%	100,00%
Soc Gen Paris (O2RNE8IBXP4R0TD8PU41)	6,30%	6,76%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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
Commerzbank AG Ffm (851WYGNLUQLFZBSYGB56)	13,29%	5,25%	100,00%	0,00%	100,00%
Citigroup Global Markets EU (6TJCK1B7E7UTXP528Y04)	11,41%	4,20%	100,00%	0,00%	100,00%
Toronto Dominion Bk Ldn (PT3QB789TSUIDF371261)	10,54%	18,10%	100,00%	0,00%	100,00%
NatWest Markets N.V. (X3CZP3CK64YBHON1LE12)	8,55%	3,13%	100,00%	0,00%	100,00%
UniCredit Bank AG Mün (2ZCNRR8UK83OBTEK2170)	6,73%	2,46%	100,00%	0,00%	100,00%



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## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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)	50,98%	56,50%	100,00%	0,00%	100,00%
Barclays Bank PLC Ireland (2G5BKIC2CB69PRJH1W31)	40,95%	36,98%	100,00%	0,00%	100,00%
Intesa Sanpaolo S.p.A. (2W8N8UU78PMDQKZENC08)	4,98%	4,35%	100,00%	0,00%	100,00%
Jefferies International LTD (S5THZMDUJCTQZBTRVI98)	1,63%	1,09%	100,00%	0,00%	100,00%
Kepler Cheuvreux S.A. (9695005EOZG9X8IRJD84)	1,46%	1,09%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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
NORD LB Hann (DSNHHQ2B9X5N6OUJ1236)	43,06%	75,78%	100,00%	0,00%	100,00%
BNP Paribas Paris (R0MUWSFPU8MPRO8K5P83)	10,64%	4,52%	100,00%	0,00%	100,00%
Citigroup Global Markets EU (6TJCK1B7E7UTXP528Y04)	8,32%	3,50%	100,00%	0,00%	100,00%
Deutsche Bk Ffm (7LTFWZYICNSX8D621K86)	7,61%	3,21%	100,00%	0,00%	100,00%
Banco Santander S A (5493006QMFDDMYWIAM13)	5,46%	2,30%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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)	5,93%	5,78%	100,00%	0,00%	100,00%
HSBC Trinkaus Dssd (JUNT405OW8OY5GN4DX16)	5,84%	5,74%	100,00%	0,00%	100,00%
Credit Agricole Corp & Inv (1VUV7VQFKUOQSJ21A208)	5,51%	5,58%	100,00%	0,00%	100,00%
Jane Street Financial Ltd. (549300ZHEHX8M31RP142)	5,24%	5,01%	100,00%	0,00%	100,00%
Barclays Bank PLC Ireland (2G5BKIC2CB69PRJH1W31)	4,93%	4,94%	100,00%	0,00%	100,00%



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## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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
HSBC Trinkaus Dssd (JUNT405OW8OY5GN4DX16)	19,13%	22,17%	100,00%	0,00%	100,00%
Citigroup Global Markets EU (6TJCK1B7E7UTXP528Y04)	18,23%	14,70%	100,00%	0,00%	100,00%
Toronto Dominion Bk Ldn (PT3QB789TSUIDF371261)	6,67%	7,48%	100,00%	0,00%	100,00%
J P Morgan SE FFM (549300ZK53CNGEEI6A29)	5,18%	13,91%	100,00%	0,00%	100,00%
DZ Bank AG (529900HNOAA1KXQJUQ27)	4,35%	3,35%	100,00%	0,00%	100,00%



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## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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
NatWest Markets N.V. (X3CZP3CK64YBHON1LE12)	24,61%	24,39%	100,00%	0,00%	100,00%
Citigroup Global Markets EU (6TJCK1B7E7UTXP528Y04)	23,73%	24,39%	100,00%	0,00%	100,00%
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	19,01%	19,51%	100,00%	0,00%	100,00%
UBS Europe SE (5299007QVIQ7IO64NX37)	9,47%	9,76%	100,00%	0,00%	100,00%
ING Bk Adam (3TK20IVIUJ8J3ZU0QE75)	7,13%	7,32%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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)	100,00%	100,00%	100,00%	0,00%	100,00%





## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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)	100,00%	100,00%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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 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)	100,00%	100,00%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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)	100,00%	100,00%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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%



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## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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
Flow Traders B V (549300CLJI9XDH12XV51)	33,27%	30,99%	100,00%	0,00%	100,00%
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	28,07%	28,00%	100,00%	0,00%	100,00%
Jane Street Financial Ltd. (549300ZHEHX8M31RP142)	25,51%	25,58%	100,00%	0,00%	100,00%
Donner & Reuschel AG (23ZYQ4KSBEDVYML8NC86)	12,29%	15,03%	100,00%	0,00%	100,00%
Optiver V.O.F. (7245009KRY SAYB2QCC29)	0,85%	0,40%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

Class of Instrument      BG99  
                                 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%



M.M. WARBURG & CO

BANK

## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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%





## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

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
Barclays Bank PLC Ireland (2G5BKIC2CB69PRJH1W31)	17,07%	15,02%	100,00%	0,00%	100,00%
Deutsche Bk Ffm (7LTFWZYICNSX8D621K86)	14,05%	14,10%	100,00%	0,00%	100,00%
HSBC Trinkaus Dssd (JUNT405OW8OY5GN4DX16)	12,72%	10,51%	100,00%	0,00%	100,00%
NatWest Markets N.V. (X3CZP3CK64YBHON1LE12)	12,09%	9,25%	100,00%	0,00%	100,00%
Landesbk Hessen-Thüri Ffm (DIZES5CFO5K3I5R58746)	7,13%	7,43%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2020

Class of Instrument      CB99  
                                    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
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	100,00%	100,00%	100,00%	0,00%	100,00%