



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

Class of Instrument AA99  
Equity instruments- Shares and share certificates

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)	35,73%	0,80%	100,00%	0,00%	100,00%
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	26,72%	5,74%	100,00%	0,00%	100,00%
Baader Bank AG (529900JFOPPEDUR61H13)	17,11%	1,04%	100,00%	0,00%	100,00%
UBS Europe SE (5299007QVIQ7IO64NX37)	7,93%	0,55%	100,00%	0,00%	100,00%
Robotti Securities, LLC (2549002YOBTNZ00I4L93)	5,57%	4,36%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

Class of Instrument AA99  
Equity instruments- Shares and share certificates

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)	79,36%	61,28%	100,00%	0,00%	100,00%
Goldman Sachs Bank Europe (8IBZUGJ7JPLH368JE346)	8,81%	2,38%	100,00%	0,00%	100,00%
UBS Europe SE (5299007QVIQ7IO64NX37)	6,02%	3,09%	100,00%	0,00%	100,00%
Baader Bank AG (529900JFOPPEDUR61H13)	2,14%	0,47%	100,00%	0,00%	100,00%
Liquidnet EU Limited (2138005N5TO2UJR67I36)	1,60%	2,32%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

Class of Instrument AA99  
Equity instruments- Shares and share certificates

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)	68,49%	66,61%	100,00%	0,00%	100,00%
Goldman Sachs Bank Europe (8IBZUGJ7JPLH368JE346)	8,29%	14,06%	100,00%	0,00%	100,00%
ABG Sundal Collier Norge (2138005DRCU66B8BNY04)	7,64%	3,09%	100,00%	0,00%	100,00%
Liquidnet EU Limited (2138005N5TO2UJR67I36)	4,41%	2,00%	100,00%	0,00%	100,00%
UBS Europe SE (5299007QVIQ7IO64NX37)	4,36%	7,55%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

Class of Instrument AA99  
Equity instruments- Shares and share certificates

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)	74,47%	78,41%	100,00%	0,00%	100,00%
Baader Bank AG (529900JFOPPEDUR61H13)	10,60%	3,38%	100,00%	0,00%	100,00%
UBS Europe SE (5299007QVIQ7IO64NX37)	6,49%	7,24%	100,00%	0,00%	100,00%
Goldman Sachs Bank Europe (8IBZUGJ7JPLH368JE346)	2,90%	4,73%	100,00%	0,00%	100,00%
Jefferies GmbH (5493004I3LZM39BWHQ75)	1,86%	0,47%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

Class of Instrument AB99  
Equity instruments- Shares and share certificates

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 2022

Class of Instrument AB99  
Equity instruments- Shares and share certificates

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)	85,48%	91,77%	100,00%	0,00%	100,00%
Goldman Sachs Bank Europe (8IBZUGJ7JPLH368JE346)	7,64%	7,21%	100,00%	0,00%	100,00%
Robotti Securities, LLC (2549002YOBTNZ00I4L93)	5,19%	1,01%	100,00%	0,00%	100,00%
UBS Europe SE (5299007QVIQ7IO64NX37)	1,68%	0,02%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

Class of Instrument AB99  
Equity instruments- Shares and share certificates

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)	80,71%	83,28%	100,00%	0,00%	100,00%
Goldman Sachs Bank Europe (8IBZUGJ7JPLH368JE346)	19,29%	16,72%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

Class of Instrument AB99  
Equity instruments- Shares and share certificates

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 2022

Class of Instrument AC99  
Exchange traded products (ETPs)Exc

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
Flow Traders B V (549300CLJI9XDH12XV51)	41,28%	45,00%	100,00%	0,00%	100,00%
Jane Street Financial Ltd. (549300ZHEHX8M31RP142)	23,76%	26,80%	100,00%	0,00%	100,00%
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	18,30%	14,60%	100,00%	0,00%	100,00%
Optiver V.O.F. (7245009KRY SAYB2QCC29)	15,47%	12,39%	100,00%	0,00%	100,00%
Jefferies GmbH (5493004I3LZM39BWHQ75)	0,47%	0,37%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

Class of Instrument AC99  
Exchange traded products (ETPs)Exc  
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
Flow Traders B V (549300CLJI9XDH12XV51)	52,05%	24,13%	100,00%	0,00%	100,00%
Jane Street Financial Ltd. (549300ZHEHX8M31RP142)	47,95%	75,87%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

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)	90,86%	90,14%	100,00%	0,00%	100,00%
UBS Europe SE (5299007QVIQ7IO64NX37)	9,14%	9,86%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

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
J P Morgan SE FFM (549300ZK53CNGEEI6A29)	99,84%	97,12%	100,00%	0,00%	100,00%
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	0,16%	2,88%	100,00%	0,00%	100,00%



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## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

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)	83,76%	100,00%	100,00%	0,00%	100,00%
UBS Europe SE (5299007QVIQ7IO64NX37)	16,24%	0,00%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

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 2022

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
Barclays Bank PLC Ireland (2G5BKIC2CB69PRJH1W31)	13,98%	13,60%	100,00%	0,00%	100,00%
Deutsche Bk Ffm (7LTFWZYICNSX8D621K86)	13,27%	11,96%	100,00%	0,00%	100,00%
Citigroup Global Markets EU (6TJCK1B7E7UTXP528Y04)	9,78%	9,80%	100,00%	0,00%	100,00%
NatWest Markets N.V. (X3CZP3CK64YBHON1LE12)	8,02%	6,98%	100,00%	0,00%	100,00%
Soc Gen Paris (O2RNE8IBXP4R0TD8PU41)	6,63%	7,05%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

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
J P Morgan SE FFM (549300ZK53CNGEEI6A29)	44,75%	44,89%	100,00%	0,00%	100,00%
Deutsche Bk Ffm (7LTFWZYICNSX8D621K86)	16,51%	13,86%	100,00%	0,00%	100,00%
Goldman Sachs Bk Europe SE (8IBZUGJ7JPLH368JE346)	7,15%	5,68%	100,00%	0,00%	100,00%
Citigroup Global Markets EU (6TJCK1B7E7UTXP528Y04)	6,89%	5,14%	100,00%	0,00%	100,00%
BayernLB Mue (VDYMYTQGZZ6DU0912C88)	4,09%	3,13%	100,00%	0,00%	100,00%





## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

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
BofA Securities Europe SA (549300FH0WJAPEHTIQ77)	52,01%	48,41%	100,00%	0,00%	100,00%
BNP Paribas Paris (R0MUWSFPU8MPRO8K5P83)	46,96%	48,41%	100,00%	0,00%	100,00%
UniCredit Bank AG Mün (2ZCNRR8UK83OBTEK2170)	0,66%	1,94%	100,00%	0,00%	100,00%
Intesa Sanpaolo SpA Maild (2W8N8UU78PMDQKZENC08)	0,37%	1,25%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

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
Banco Santander S A (5493006QMFDDMYWIAM13)	13,60%	13,86%	100,00%	0,00%	100,00%
Citigroup Global Markets EU (6TJCK1B7E7UTXP528Y04)	12,76%	12,80%	100,00%	0,00%	100,00%
J P Morgan SE FFM (549300ZK53CNGEEI6A29)	9,62%	9,25%	100,00%	0,00%	100,00%
Commerzbank AG Ffm (851WYGNLUQLFZBSYGB56)	8,32%	8,00%	100,00%	0,00%	100,00%
DZ Bank AG (529900HNOAA1KXQJUQ27)	8,00%	8,63%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

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	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
BNP Paribas Paris (R0MUWSFPU8MPRO8K5P83)	7,86%	8,20%	100,00%	0,00%	100,00%
HSBC Trinkaus Dssd GmbH (JUNT405OW8OY5GN4DX16)	7,83%	7,56%	100,00%	0,00%	100,00%
Morgan Stanley Europe SE (54930056FHWP7GIWYY08)	7,57%	7,49%	100,00%	0,00%	100,00%
BofA Securities Europe SA (549300FH0WJAPEHTIQ77)	7,46%	7,43%	100,00%	0,00%	100,00%
Deutsche Bk Ffm (7LTFWZYICNSX8D621K86)	7,06%	7,27%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

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 GmbH (JUNT405OW8OY5GN4DX16)	21,43%	19,70%	100,00%	0,00%	100,00%
Citigroup Global Markets EU (6TJCK1B7E7UTXP528Y04)	13,25%	12,98%	100,00%	0,00%	100,00%
J P Morgan SE FFM (549300ZK53CNGEEI6A29)	9,04%	12,98%	100,00%	0,00%	100,00%
Toronto Dominion Bk Ldn (PT3QB789TSUIDF371261)	5,78%	4,34%	100,00%	0,00%	100,00%
BNP Paribas Paris (R0MUWSFPU8MPRO8K5P83)	4,84%	4,73%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

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 2022

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 2022

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 2022

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 2022

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 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 2022

Class of Instrument BE99  
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
Flow Traders B V (549300CLJI9XDH12XV51)	100,00%	100,00%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

Class of Instrument	BF99				
	Exchange traded products (ETPs)				
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)	52,72%	40,00%	100,00%	0,00%	100,00%
Optiver V.O.F. (7245009KRY SAYB2QCC29)	47,28%	60,00%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

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 2022

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)	84,11%	73,24%	100,00%	0,00%	100,00%
UBS Europe SE (5299007QVIQ7IO64NX37)	15,89%	26,76%	100,00%	0,00%	100,00%



## Top 5 intermediaries reporting regarding MIFID II professional clients financial year 2022

Class of Instrument C999  
no specific classification

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 2022

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
Deutsche Bk Ffm (7LTFZYICNSX8D621K86)	22,08%	11,73%	100,00%	0,00%	100,00%
Citigroup Global Markets EU (6TJCK1B7E7UTXP528Y04)	18,14%	10,77%	100,00%	0,00%	100,00%
J P Morgan SE FFM (549300ZK53CNGEEI6A29)	10,14%	7,19%	100,00%	0,00%	100,00%
Credit Agricole Corp & Inv (1VUV7VQFKUOQSJ21A208)	8,97%	6,36%	100,00%	0,00%	100,00%
DZ Bank AG (529900HNOAA1KXQJUQ27)	7,53%	5,39%	100,00%	0,00%	100,00%