William Blair Sell Side - Held NMS Stocks and Options Order Routing Public Report Generation Date: 2024-04-05 14:07:43.210 GMT-04:00 Vear: 2024 Quarter: 1

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Venue Non-Directed Orders Venue Non-Directed Order Citadel Securities LLC (CDRG) 34 Virtu Americas LLC (NTE) 33 Wall Street Access (VNDM) 31 January 2024 Summary Non-Directed Orders as Market Orders as Percent of Percent of All Orders 100.00% Venues - Non Directed Orders Venues - Non-Directed Orders Venue Non-Directed Orders Venues - Non-Directed Orders Wall Street Access (VNDM) 32 Venues - Non-Directed Orders Wall Street Access (VNDM) 32 January 2024 Summary Non-Directed Orders as Market Orders as Percent of Percent of All Orders Directed Orders Venue Non-Directed Orders Venue Non-Directed Orders Venue Non-Directed Orders Venues - Non Directed Orders Venue Non-Directed Orders Non-Directed Orders as Market Orders as Percent of Wall Street Access - William Blair did not receive payment fin Wall Street Access - William Blair did not receive payment fin Wall Street Access - William Blair did not receive payment fin Wall Street Access - William Blair did not receive payment fin Wall Street Access - William Blair did not receive payment fin Wall Street Access - William Blair did not receive payment fin Wall Street Access - William Blair did not receive payment fin Manitoral Financial Services LLC - William Blair did not receive payment fin Manitoral Financial Services LLC - William Blair did not receive payment fin Manitoral Financial Services LLC - William Blair did not receive payment fin Manitoral Financial Services LLC - William Blair did not receive payment fin Manitoral Financial Services LLC - William Blair did not receive payment fin Manitoral Financial Services LLC - William	Percent of Non-Direct		Non-Directed Orders	61.54% 23.08% Other Orders (%) 42.85% 42.86%	for Market Orders (USD) 0.0000 0.0000 0.0000 0.0000 Net Payment Paid/Received for Market Orders (USD) 0.0000 0.0000	Net Payment Paid/Received for Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000 Net Payment Paid/Received for Market Orders (cents per hundred shares) 0.0000 0.0000 0.0000	Net Payment Paid/Received Marketable Limit Orders (USD) 0 0 0 0 Net Payment Paid/Received Marketable Limit Orders (USD) 0 0 0 0 0 0 0	Marketable Limit Orders (cents per hundred shares) 0.0000 0.0000 0.0000	Not-Marketable Limit Orders (USD) 0 0 0 0 Not Payment Paid/Received Non-Marketable Limit Orders	Non-Marketable Limit Orders (cents per hundred shaces) 0.0000 0.0000 0.0000	Net Payment Paid/Received Other Orders (USD) 0 0 0	Net Payment Paid/Receive Other Orders (cents per hundred sharer 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
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rru Americas LLC (NTE) 33 all Street Access (VNDM) 32 unuary 2024 mmany Non-Directed Orders as Market Orders as Percent of Percent of All Orders 100.00% 73 unues - Non Directed Orders 100.00% 100.00% 73 unues - Non Directed Orders 100.00%	33.52% 33.61 32.88% 32.98 Marketable Limit Orders Percent of Non-Direct of Non-Direct Orders 73.08% 5.86 Market Orders (%) Market Orders (10.000)	% 27.21% % 29.41% as Non-Marketable Limit Orders d as Percent of Non-Directed Orders % 17.88%	Godes as Percent of Non-Directed Orders as Percent of Non-Directed Orders As 15%	14.29% 42.86%	0.0000	0.0000	0	0.0000	0	0.0000	0	0.000
all Street Access (WDDM) 32 Mon-Directed Orders as Market Orders as Percent of Percent of All Orders Non-Directed Orders Brances - Non Directed Orders Brances - Non Directed Orders Brances - Non Directed Orders Brances - Non-Directed Orders - Non-Directed Orders - Non-Directed Orders Non-Directed Orders - Non-Directed Order	32.88% 32.98 Marketable Limit Orders of Non-Orders 73.08% 5.88 Market Orders (%) M	% 29.41% % 29.41% as Non-Marketable Limit Orders d as Percent of Non-Directed rs Orders % 17.88%	Option Contracts Other Orders as Percent of s Non-Directed Orders (3.15%	42.86%		0.0000	-				•	
Anuarry 2024 Immany Non-Directed Orders as Market Orders as Percent of Percent of All Orders Directed Orders Enue Non-Directed Orders India Street Access - William Blair did not receive payment from the Company of	of Non- Of Non- Orders Percent of Non-Oirect Order 73.08% Market Did Eimit Orders Orde 5.88 Market Orders (%) Market Orders (%) Market Orders (%)	as Non-Marketable Limit Orders d as Percent of Non-Directed rs Orders % 17.88%	Option Contracts d Other Orders as Percent of s Non-Directed Orders 4.15% Non-Marketable Limit Orders		0		0	0.0000	0	0.0000	0	0.000
Non-Directed Orders as Market Orders as Percent of All Orders 100.00% Directed Orders 100.00% Directed Orders 100.00% 73 Directed Orders 100.00% Non-Directed Orders 100.0	of Non- Percent of Non-Direct Orders Order 73.08% S.8: ders (%) Market Orders (100.00%	d as Percent of Non-Directed rs Orders % 17.88%	Other Orders as Percent of Non-Directed Orders 3.15% Non-Marketable Limit Orders									
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ational Financial Services, CLONSC) 100 Interial Aspects: Intadel Securities LLC - William Blair did not receive payment fruit Americas LLC - William Blair did not receive payment fruit Americas LLC - William Blair did not receive payment fruit Americas LLC - William Blair did not receive payment fruit Americas LLC - William Blair did not receive payment fruit Americas LLC - William Blair did not receive berurary 2024 unmany Non-Directed Orders as Market Orders as Percent of Percent of All Orders 100.00% Directed Orders as Directed Orders as Percent of All Orders 100.00% Directed Orders as Directed Orders as Percent of All Orders as Percent of All Orders as Directed Orders as Percent of All Orders as Directed Orders as Di	100.00%	6) Marketable Limit Orders (%)	Non-Marketable Limit Orders									
ational Financial Services, CLONSC) 100 Interial Aspects: Intadel Securities LLC - William Blair did not receive payment fruit Americas LLC - William Blair did not receive payment fruit Americas LLC - William Blair did not receive payment fruit Americas LLC - William Blair did not receive payment fruit Americas LLC - William Blair did not receive payment fruit Americas LLC - William Blair did not receive berurary 2024 unmany Non-Directed Orders as Market Orders as Percent of Percent of All Orders 100.00% Directed Orders as Directed Orders as Percent of All Orders 100.00% Directed Orders as Directed Orders as Percent of All Orders as Percent of All Orders as Directed Orders as Percent of All Orders as Directed Orders as Di	100.00%	6) Marketable Limit Orders (%)	Non-Marketable Limit Orders									Net Payment Paid/Received
ational Financial Services, LC (NFSC) 100 **Material Aspects: Itadel Securities LLC - William Blair did not receive payment from the Area of the Are	100.00%	6) Marketable Limit Orders (%)	10/1		Net Payment Paid/Received	for Market Orders (cents per	Net Payment Paid/Received Marketable Limit Orders	Marketable Limit Orders	Non-Marketable Limit Orders	Non-Marketable Limit Orders	Net Payment Paid/Received	Other Orders (cents per
Let (INSC) 100 Laterial Aspects: Lated Securities LLC - William Blair did not receive payment frust Americas LLC - William Blair did not receive payment frust Americas LLC - William Blair did not receive payment fast breath receive payment fast stonal Financial Services LLC - William Blair did not receive bebruary 2024 Jammary Non-Directed Orders as Market Orders as Percent of Percent of All Orders 100.00% Directed Of All Orders 100.00%			(%)	Other Orders (%)	for Market Orders (USD)	hundred shares)	(USD)	(cents per hundred shares)	(USD)	(cents per hundred shares)	Other Orders (USD)	hundred shares
tadel Securities LC: -William Blair did not receive payment irrut Americas LL: -William Blair did not receive payment irrut Americas LL: -William Blair did not receive payment for all Street Access - William Blair did not receive payment for altonal Financial Services LL: -William Blair did not receive brurary 2024	and for the same of the same o	% 100.00%	6 100.00%	100.00%	0	0.0000	0	0.0000	0	0.0000	0	0.000
Libded Securities LLC - William Blair did not receive paymen frivta Americas LLC - William Blair did not receive paymen frivta Americas LLC - William Blair did not receive payment for stational Financial Services LLC - William Blair did not receive February 2024 Jummary Non-Directed Orders as Market Orders as Percent of Percent of All Orders 100.00%												
/irfut Americas LLC - William Balar id on creecive payment f Walfstreet Access - William Balar id on receive payment f Walfstreet Access - William Balar id on receive February 2024 ummary Non-Directed Orders as Market Orders as Percent of Percent of All Orders Directed 0.00%	ient for order flow from CDRG for th	se trades.										
February 2024 Non-Directed Orders as Market Orders as Percent of Percent of All Orders Percent of All Orders 100.00%	nt for order flow from NITE for these	rades.										
ummary Non-Directed Orders as Market Orders as Percent of Percent of All Orders Directed O 100.00%												
ummary Non-Directed Orders as Market Orders as Percent of Percent of All Orders Directed O 100.00%												
Non-Directed Orders as Market Orders as Percent of Percent of All Orders Directed O 100.00% 95			S&P 500 Stocks									
Percent of All Orders Directed O 100.00% 95		as Non-Marketable Limit Orders										
100.00% 95	of Non- Percent of Non-Direct Orders Orde	ed as Percent of Non-Directed rs Orders	d Other Orders as Percent of s Non-Directed Orders									
	95.01% 1.33	% 3.01%	6 0.67%									
enues - Non Directed Orders												
endes - Non Directed Orders												
			Non-Marketable Limit Orders		Net Develope Deid (Deserted	Net Payment Paid/Received for Market Orders (cents per	Net Payment Paid/Received Marketable Limit Orders			Net Payment Paid/Received Non-Marketable Limit Orders		Net Payment Paid/Receiver Other Orders (cents pe
enue Non-Directed Order	ders (%) Market Orders (6) Marketable Limit Orders (%)		Other Orders (%)		hundred shares)	(USD)	(cents per hundred shares)		(cents per hundred shares)	Other Orders (USD)	hundred shares
Vall Street Access (VNDM)	33.88% 34.00	% 29.63%	6 30.27%	39.02%	0	0.0000	0	0.0000	0	0.0000	0	0.000
	33.18% 33.30			24.39%		0.0000	0	0.0000	0	0.0000	0	0.000
itadel Securities LLC (CDRG)	32.94% 32.68	% 39.51%	6 37.30%	36.59%	0	0.0000	0	0.0000	0	0.0000	0	0.000
32	32.94% 32.00	76 39.5176		30.39%	U	0.0000	U	0.0000	U	0.0000	0	0.000
ebruary 2024			Non-S&P 500 Stocks									
ummary	Marketable Limit Orders	as Non-Marketable Limit Orders	5									
Non-Directed Orders as Market Orders as Percent of	of Non- Percent of Non-Direct		d Other Orders as Percent of									
Percent of All Orders Directed O 100.00% 94	1 Orders Orde 94.39% 1.43	ed as Percent of Non-Directed	s Non-Directed Orders									
	34.3370	rs Orders	4 0.26%									
enues - Non Directed Orders		rs Orders	6 0.26%									
		rs Orders	6 0.26%									Net Payment Paid/Receive
enue Non-Directed Order		rs Orders	6 0.26%				Net Payment Paid/Received					
	d(M)	rs Orders % 3.87%	6 0.26% Non-Marketable Limit Orders			for Market Orders (cents per	Marketable Limit Orders	Marketable Limit Orders	Ion-Marketable Limit Orders	Non-Marketable Limit Orders	Net Payment Paid/Received	Other Orders (cents p
	ders (%) Market Orders (rs Orders	6 0.26% Non-Marketable Limit Orders	Other Orders (%)				Marketable Limit Orders (cents per hundred shares)	Ion-Marketable Limit Orders			Other Orders (cents p
	34.10% 33.95	rs Orders % 3.87% 6) Marketable Limit Orders (%) % 35.90%	Non-Marketable Limit Orders (%) 4 36.36%	Other Orders (%) 47.62%	for Market Orders (USD)	for Market Orders (cents per hundred shares) 0.0000	Marketable Limit Orders (USD)	Marketable Limit Orders (cents per hundred shares) 0.0000	Non-Marketable Limit Orders (USD)	Non-Marketable Limit Orders (cents per hundred shares) 0.0000	Net Payment Paid/Received Other Orders (USD)	Other Orders (cents per hundred share:
rtu Americas LLC (NITE) 33	,	rs Orders % 3.87% 6) Marketable Limit Orders (%) % 35.90%	Non-Marketable Limit Orders (%) 4 36.36%	Other Orders (%)	for Market Orders (USD)	for Market Orders (cents per hundred shares)	Marketable Limit Orders (USD)	Marketable Limit Orders (cents per hundred shares)	Ion-Marketable Limit Orders (USD)	Non-Marketable Limit Orders (cents per hundred shares)	Net Payment Paid/Received	Other Orders (cents pe hundred shares 0.000 0.000

William Blair Sell Side - Held NMS Stocks and Options Order Routing Public Report

Generation Date: 2024-04-06 14:07:43.210 GMT -0400

Year: 2024	Quarter: 1
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February 2024				Option Contracts
Summary				
		Marketable Limit Orders as	Non-Marketable Limit Orders	
Non-Directed Orders as	Market Orders as Percent of Non-	Percent of Non-Directed	as Percent of Non-Directed	Other Orders as Percent of
Percent of All Orders	Directed Orders	Orders	Orders	Non-Directed Orders

Venues - Non Directed Orders

							Net Payment Paid/Received	Net Payment Paid/Received	Net Payment Paid/Received	Net Payment Paid/Received	Net Payment Paid/Received		Net Payment Paid/Received
				Non-Marketable Limit Orders		Net Payment Paid/Received	or Market Orders (cents per	Marketable Limit Orders	Marketable Limit Orders	Non-Marketable Limit Orders	Non-Marketable Limit Orders	Net Payment Paid/Received	Other Orders (cents per
Venue	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	(%)	Other Orders (%)	for Market Orders (USD)	hundred shares)	(USD)	(cents per hundred shares)	(USD)	(cents per hundred shares)	Other Orders (USD)	hundred shares)
National Financial Services,													
LLC (NESC)	100.00%	100.00%	100.00%	100.00%	100.00%	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:
Cladel Securities LLC - William Blair did not receive payment for order flow from CDRG for these trades.
Virtu Americas LLC - William Blair did not receive payment for order flow from NTF for these trades.
Wall Street Access - William Blair did not receive payment for order flow from VNDM for these trades.
Wall Street Access - William Blair did not receive payment for order flow from VNDM for these trades.
Wall Street Access - William Blair did not receive payment for order flow from VNDF for these trades

Mar	ch 2024				S&P 500 Stocks
Sumn	nary				
			Marketable Limit Orders as	Non-Marketable Limit Orders	
	Non-Directed Orders as	Market Orders as Percent of Non-	Percent of Non-Directed	as Percent of Non-Directed	Other Orders as Percent of
	Percent of All Orders	Directed Orders	Orders	Orders	Non-Directed Orders
	100.00%	95.82%	1.49%	2.55%	0.15%

Venues - Non Directed Orders

Venue	Non-Directed Orders (%)	Market Orders (%) Mark		n-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders (USD)		Marketable Limit Orders	Net Payment Paid/Received Ne Marketable Limit Orders Non (cents per hundred shares)	-Marketable Limit Orders N			Net Payment Paid/Received Other Orders (cents per hundred shares)
Citadel Securities LLC (CDRG) Virtu Americas LLC (NITE)	33.59% 33.42%	33.56%	40.18% 27.68%	31.25%	27.27% 45.45%	0	0.0000 0.0000	0	0.0000	0	0.0000	0	0.0000
Wall Street Access (VNDM)	32.99%	33.39% 33.05%	32.14%	36.98% 31.77%	27.27%	0	0.0000	0	0.0000	0	0.0000	0	0.0000

March 2024				Non-S&P 500 Stocks
Summary				
		Marketable Limit Orders as	Non-Marketable Limit Orders	
Non-Directed Orders as	Market Orders as Percent of Non-	Percent of Non-Directed	as Percent of Non-Directed	Other Orders as Percent of
Percent of All Orders	Directed Orders	Orders	Orders	Non-Directed Orders
100.00%	91.59%	2.37%	5.74%	0.30%

Venues - Non Directed Orders

Venue	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders (USD)				Net Payment Paid/Received Non-Marketable Limit Orders (USD)			Net Payment Paid/Received Other Orders (cents per hundred shares)
Citadel Securities LLC (CDRG)	33.68%	33.129	47.52%	37.55%	23.08%	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Wall Street Access (VNDM) Virtu Americas LLC (NITE)	33.18% 33.14%	33.679 33.229		29.59% 32.86%	42.31% 34.62%	0	0.0000 0.0000	0	0.0000	0	0.0000 0.0000	0	0.0000 0.0000

March 2024				Option Contracts
Summary				
		Marketable Limit Orders as	Non-Marketable Limit Orders	
Non-Directed Orders as	Market Orders as Percent of Non-	Percent of Non-Directed	as Percent of Non-Directed	Other Orders as Percent of
Percent of All Orders	Directed Orders	Orders	Orders	Non-Directed Orders
100.00%	70.94%	6.10%	16.90%	6.06%

Venues - Non Directed Orders

							Net Payment Paid/Received	Net Payment Paid/Received	Net Payment Paid/Received	Net Payment Paid/Received Net	t Payment Paid/Received		Net Payment Paid/Received
				Non-Marketable Limit Orders		Net Payment Paid/Received 1	or Market Orders (cents per	Marketable Limit Orders	Marketable Limit Orders	Non-Marketable Limit Orders Non-P	-Marketable Limit Orders	Net Payment Paid/Received	Other Orders (cents per
Venue	Non-Directed Orders (%)	Market Orders (%) Ma	arketable Limit Orders (%)	(%)	Other Orders (%)	for Market Orders (USD)	hundred shares)	(USD)	(cents per hundred shares)	(USD) (ce	ents per hundred shares)	Other Orders (USD)	hundred shares)
National Financial Services,													
LLC (NFSC)	100.00%	100.00%	100.00%	100.00%	100.00%	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:
Closed Securities LLC - William Blair did not receive payment for order flow from CDRG for these trades.
Virtu Americas LLC - William Blair did not receive payment for order flow from NITE for these trades.
Will Street Access - William Blair did not receive payment for order flow from NIDM for these studies.
National Financial Services LLC - William Blair did not receive payment for order flow from MSC for these trades.