

Execution Performance Reports Based on Execution Quality Metrics from S3 Financial
Market - Order Size 100-9999 - All Exchange Listed, SP500, and Non SP500
August 2021

		Market Orders											
All Exchange Listed	Order Size 100-499						Order Size 500-1999						
	Venue	Speed	PI%	PS%	AoB%	Eff/Quote	Venue	Speed	PI%	PS%	AoB%	Eff/Quote	
	Industry Avg	0.1	89.2	0.6	99.5	34.2	Industry Avg	0.1	85.3	2.1	97.9	43.1	
	WFCS Total	0.3	93.9	0.5	99.6	18.5	WFCS Total	0.4	89.9	1.6	98.4	31.2	
	Order Size 2000-4999						Order Size 5000-9999						
	Venue	Speed	PI%	PS%	AoB%	Eff/Quote	Venue	Speed	PI%	PS%	AoB%	Eff/Quote	
	Industry Avg	0.2	77.0	6.6	93.5	70.3	Industry Avg	0.4	65.9	13.2	86.8	105.8	
	WFCS Total	0.5	84.3	4.5	95.5	49.6	WFCS Total	0.7	76.4	10.1	89.9	77.7	

		Market Orders											
SP 500	Order Size 100-499						Order Size 500-1999						
	Venue	Speed	PI%	PS%	AoB%	Eff/Quote	Venue	Speed	PI%	PS%	AoB%	Eff/Quote	
	Industry Avg	0.0	92.3	0.6	99.4	33.3	Industry Avg	0.0	89.2	2.3	97.7	42.0	
	WFCS Total	0.3	95.6	0.5	99.5	16.1	WFCS Total	0.3	93.7	1.4	98.6	28.1	
	Order Size 2000-4999						Order Size 5000-9999						
	Venue	Speed	PI%	PS%	AoB%	Eff/Quote	Venue	Speed	PI%	PS%	AoB%	Eff/Quote	
	Industry Avg	0.1	81.0	7.5	92.5	71.8	Industry Avg	0.3	68.2	16.9	83.1	116.9	
	WFCS Total	0.5	89.7	4.3	95.7	46.0	WFCS Total	0.6	84.7	8.8	91.2	83.3	

		Market Orders											
Non SP 500	Order Size 100-499						Order Size 500-1999						
	Venue	Speed	PI%	PS%	AoB%	Eff/Quote	Venue	Speed	PI%	PS%	AoB%	Eff/Quote	
	Industry Avg	0.1	88.2	0.5	99.5	34.5	Industry Avg	0.1	84.4	2.1	98.0	43.3	
	WFCS Total	0.3	93.0	0.4	99.6	19.7	WFCS Total	0.4	88.8	1.6	98.4	32.0	
	Order Size 2000-4999						Order Size 5000-9999						
	Venue	Speed	PI%	PS%	AoB%	Eff/Quote	Venue	Speed	PI%	PS%	AoB%	Eff/Quote	
	Industry Avg	0.2	76.3	6.4	93.6	69.9	Industry Avg	0.4	65.6	12.6	87.4	104.0	
	WFCS Total	0.5	83.1	4.6	95.4	50.3	WFCS Total	0.7	74.8	10.4	89.6	76.7	

Execution Performance Report Overview

This report contains monthly aggregated information regarding overall execution quality for All Exchange Listed, SP 500, and Non SP 500 symbol sets.

Market Order Performance Metrics

Speed = Average execution speed in seconds. WFCS' speed includes processing time after the transaction is publicly reported. Executing market centers' public 605 reports typically do not include this added process time.

PI% = Price Improvement Percentage. Price Improvement is based on shares (higher is better) and is a measure of the percentage of shares executed at a price better than the NBBO.

PS% = Price Slippage Percentage. Price slippage percentage is based on shares (lower is better) and is a measure of the percentage of shares executed at a price worse than the NBBO.

AoB% = At or Better Percentage is equal to the percentage of shares executed at a price better than the NBBO plus the percentage of shares executed at the NBBO.

Eff/Quoted = Effective / Quoted (%) is a ratio (lower is better) of the effective spread to the quoted spread at the time of the trade. At the quote trading is expressed as 100%; inside the quote trading will result in a percentage lesser than 100%; outside the quote trading will result in a percentage greater than 100%.

Note on Time Range Used in Report

Data in above report is trailing 2 months due to incorporation of public data for best execution quality comparison.

Data in 'Execution Performance Appendix' is from prior month.

Execution Performance Appendix

August 2021

Market Orders – OTC Equities

Execution Quality Statistic	Performance for WFCS-Routed Orders
Effective Spread / Quoted Spread (EQ%) – Domestic	107.2%
Effective Spread / Quoted Spread (EQ%) – Foreign	-68.0%

Non-Marketable Limit Orders – Listed Equities (Limit Order Router)

Execution Quality Statistic	Average Fill Rate*
NYSE	81.8%
NASDAQ	79.8%
NYSE ARCA	79.1%

*For non-marketable limit orders 100-9,999 shares, fill rate represents the number of shares executed divided by the number of shares routed where a public trade occurred at the customer limit price or better after order route time.

Options

Execution Quality Statistic	Performance for WFCS-Routed Orders
Effective Spread / Quoted Spread (EQ%)	48.5%
Percent of Contracts Receiving Price Improvement	21.8%
Contracts Executed at-or-better than NBBO	97.1%

Wells Fargo Clearing Services – Best Execution

Equity & Options Order Routing Information:

Wells Fargo Clearing Services, LLC (WFCS) handles customer orders for equities and options on an agency basis only, and its order routing protocols are designed to optimize favorable execution pricing, including increased price improvement opportunities for marketable orders, increased fill rates for non-marketable limit orders, and ensure orders are executed fully and promptly. On an ongoing basis, WFCS compares the performance of multiple execution venues against each other, as well as against broader industry averages. The firm does not differentiate its order routing protocols based on the type of introducing firm, affiliated or unaffiliated, which submits the customer order.

Marketable Orders : The primary consideration for market and marketable limit orders is price improvement opportunities for client orders. Execution venues with higher observed frequency and amount of price improvement over prevailing National Best Bid or Offer (NBBO) quotations generally receive a greater percentage of routed orders whereas less favorable destinations receive a smaller portion. Weighting percentages for execution venues are generally adjusted on a daily basis based primarily upon statistical analysis of the most recent trading sessions. Key statistics for monitoring execution pricing across execution venues include the percentage of trades executed at or better than the NBBO, and the overall Effective Spread over Quoted Spread (ESQS) percentage, which measures execution price of an order in relation to the spread and mid-point of the respective security's NBBO.

Non-Marketable Limit Orders- Equities : Similarly, non-marketable limit orders are routed to execution venues with the highest observed fill rate percentages for the most recent trading sessions. The objective of this daily process is to route the largest number of limit orders to market centers demonstrating the highest likelihood of executing "resting" limit orders.

Speed: Although not a primary factor in the daily allocation of order route weightings, speed of execution is reviewed regularly to ensure that all eligible route destinations are in-line with industry averages. Typically most marketable orders are executed in well under 1 second.

Not Held Orders : Orders for which we are given not-held discretion may be worked on a best efforts basis by WFCS agency traders separately from the process described above.

Best Execution Committee & SEC Rule 606 Reports:

Wells Fargo Clearing Services maintains a Best Execution Committee as part of its formal governance structure. Meetings are held on a monthly basis and require representation from WFCS' Trading Desk and Compliance, Legal and Risk Departments. During each month's meeting, the Committee reviews the execution quality performance for each venue to which the firm routes equity and options orders, and the percentage of orders routed to each venue. The Committee also evaluates the firm's overall execution quality performance against certain industry averages. The Committee's review activities are designed to satisfy regulatory requirements for best execution, including those for regular and rigorous reviews of automated order routing relationships. A summary of key information from the most recent monthly Best Execution meeting is included in the proceeding report. Additionally, Wells Fargo Clearing Services publishes quarterly routing reports under SEC Rule 606 that reflect the market centers to which orders were routed, and the corresponding percentage received by each.

<https://www.wellsfargoclearingservicesllc.com/disclosures/order-routing.htm>

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