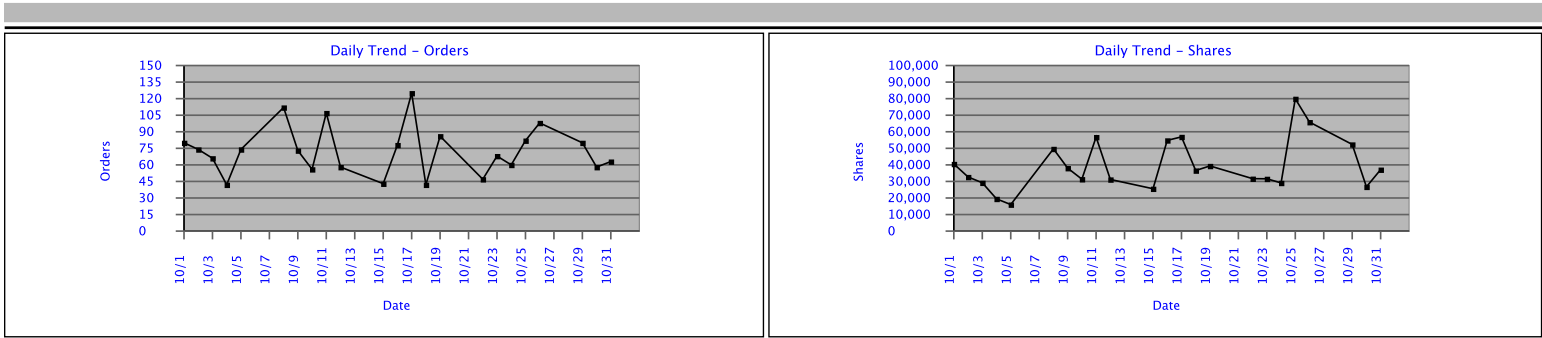


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MONTHLY ORDER FLOW REVIEW
October 2018



Monthly Order Flow									
Listed					Nasdaq				
Market Place	Orders	%	Shares	%	Market Place	Orders	%	Shares	%
Citadel Securities LLC	1,040	91.47%	543,455	92.72%	Citadel Securities LLC	297	53.71%	182,022	55.73%
G1 Execution Services, LLC	45	3.96%	25,534	4.36%	G1 Execution Services, LLC	86	15.55%	47,341	14.49%
Virtu Financial	28	2.46%	9,031	1.54%	Virtu Financial	77	13.92%	56,198	17.20%
Two Sigma Securities, LLC	16	1.41%	5,857	1.00%	National Financial Services LLC	46	8.32%	14,061	4.30%
National Financial Services LLC	5	0.44%	1,352	0.23%	Two Sigma Securities, LLC	43	7.78%	24,543	7.51%
UBS Securities, LLC	3	0.26%	876	0.15%	UBS Securities, LLC	4	0.72%	2,475	0.76%
1,137 100.00% 586,105 100.00%					553 100.00% 326,640 100.00%				

Execution Quality Results						
Listed Order Flow Performance						
Market Place	Avg. Speed (Seconds)	Average Effective Spread	Effective/Quoted Spread	% Shares Price Impr.	Average Price Impr. Per Share	Dollars Saved
Citadel Securities LLC	0	-0.002	-4.78%	96.33%	\$0.021	\$11,061.21
G1 Execution Services, LLC	0	0.005	15.56%	99.04%	\$0.015	\$373.58
Virtu Financial	0	0.007	17.75%	88.31%	\$0.018	\$145.89
Two Sigma Securities, LLC	0	-0.001	-1.59%	100.00%	\$0.035	\$207.42
National Financial Services LLC	0	-0.007	-44.07%	100.00%	\$0.011	\$14.71
UBS Securities, LLC	0	-0.024	-41.76%	100.00%	\$0.041	\$35.98
Nasdaq Order Flow Performance						
Market Place	Avg. Speed (Seconds)	Average Effective Spread	Effective/Quoted Spread	% Shares Price Impr.	Average Price Impr. Per Share	Dollars Saved
Citadel Securities LLC	0	0.044	42.20%	90.42%	\$0.035	\$5,807.32
G1 Execution Services, LLC	0	0.009	19.47%	92.88%	\$0.020	\$887.99
Virtu Financial	0	0.006	10.66%	97.67%	\$0.026	\$1,413.12
National Financial Services LLC	0	0.002	5.30%	97.16%	\$0.020	\$266.63
Two Sigma Securities, LLC	0	0.025	28.46%	96.06%	\$0.032	\$748.40
UBS Securities, LLC	0	-0.043	-60.97%	100.00%	\$0.057	\$141.20

The results above reflect the actual performance on your firm's orders sent to the market centers listed. Each destination listed above may get very different types of order flow from your firm and therefore should not be viewed as directly comparable. For example, some destinations may accept only certain order types, or selectively trade only certain securities.

MONTHLY ORDER FLOW REVIEW

Description of content:

The Monthly Order Flow Review is intended as a tool to aid and supplement your overall order flow evaluation. Although some of the execution quality measurement metrics are the same or similar to those that are required pursuant to SEC Rule 605, this not is a Rule 605 report, and is not intended to be used as such.

The order flow information and calculations are derived from the National Financial Services LLC (NFS) order entry and routing systems and internal execution analysis systems. The resulting market place execution quality is calculated using only your firm's orders, executed by that market place. They are not intended to represent that destination's overall or Rule 605 execution quality statistics.

Scope of Order Types:

- Shall include National Market System (NMS) Securities, market orders within the range of 100 - 9,999 shares. This size range is used because it represents an order size typically sent to a marketplace for automated, rather than manual, execution. Included are orders that were directed by NFS and orders that were directed by the broker/dealer to a specific market place destination.
- Shall include orders entered into the NFS order entry system during regular market hours (9:30 a.m. - 4:00 p.m. ET).
- May exclude any order sent to a destination requiring manual handling, or for which there was a request for special handling for execution, including (but not limited to) the following:
 - * Orders to be executed at a market opening price or a market closing price
 - * Orders submitted with stop prices
 - * Orders to be executed only at their full size
 - * Orders to be executed on a particular type of tick or bid
 - * Orders submitted on a "not held" basis
 - * Orders for other than regular settlement
 - * Orders to be executed at prices unrelated to the market price of the security at the time of execution.

Calculations: Calculations are based on the original execution time and price received by the venue and exclude subsequent price adjustments.

Average Speed - the average time between order receipt and order execution based on a weighted average of the entire order.

Average Effective Spread - on a share-weighted average basis, twice the difference between the execution price and the midpoint of the consolidated best bid and offer at the time of order receipt.

Average Quoted Spread - the average difference between the National Best Bid and Offer (NBBO) at the time of order receipt.

Effective/Quoted Spread - the Average Effective Spread divided by the Average Quoted Spread.

Percent of Shares Price Improved - of total shares executed, the percentage of shares that were price improved.

Average Price Improvement per Share - for shares executed with price improvement, the share-weighted average amount per share that prices were improved.

Dollars Saved - the total dollar value of price improvement received on executed orders.

Price improvement calculations are based on "eligible" orders, where orders were received when the consolidated NBBO quoted spread was a minimum 1 cent spread. Eligible orders are orders in securities that have NBBO quotes.

Some language in the above calculation descriptions was borrowed from the RegOne Solutions Rule 605 Comparison Tool. RegOne Solutions is an independent organization that is not affiliated with Fidelity.

The data provided includes order information from National Financial Services' correspondent broker-dealers. There are different means and measures by which institutions evaluate execution quality. We believe the data, analytic techniques and presentation in this report represent a tool for evaluating and measuring certain aspects of execution quality. As such, methods and measurements should be used as a supplement to, and not a substitute for, a client's overall approach to measuring execution quality, including trade by trade best execution analysis.

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Questions and Answers: Monthly Order Flow Review for Individual Firms

Q1.What is the Monthly Order Flow Review?

A1. The Monthly Order Flow Review is a correspondent broker/dealer-specific report containing detailed information on executed orders.

Q2.What type of information is included in the Monthly Order Flow Review?

A2. The report contains order routing information and market center performance representing the individual firm's executed order flow entered through National Financial Services LLC order entry system. Included are orders that were directed by National Financial Services LLC and orders that were directed by the broker/dealer to a specific market place destination.

Q3.What is the intent of the Monthly Order Flow Review and does it fulfill a specific regulatory obligation?

A3. The report is provided in consideration of your fiduciary obligation to independently evaluate and assess the quality of executions you receive. This monthly service was developed to be used as a tool to aid and supplement your overall order flow evaluation and does not fulfill a specific regulatory obligation. Although some execution quality measurements metrics are the same or similar to those which are required under SEC Rule 605 reporting, this is not a SEC Rule 605 report and it is not intended to be used as such.

Q4.What does this report tell me, what should I be looking for, and against what do I compare it?

A4. The report provides broker/dealers information of their executions, formatted into execution quality metrics/buckets that are recognized throughout the industry. The results may highlight statistics that warrant further investigation or explanation, based on your firm's execution quality policies. Comparison of cumulative monthly reports will assist in your evaluation.

Q5.Who produces the report?

A5. The report is produced by Fidelity's Order Flow Management group and is a service of Fidelity Capital Markets Services, a division of National Financial Services LLC.

Q6.What does the Order Flow Management group do?

A6. The group is responsible for the routing of all orders for customers of National Financial Services LLC (NFS). It makes overall order routing decisions to ensure customer orders are executed at the best prices reasonably available under prevailing market conditions. The group also performs regular and rigorous review of execution quality.

Q7.What criteria are taken into consideration when making order routing decisions and assessing execution quality?

A7. While no one factor is the single determinant of either decision or assessment, each market maker and market center is evaluated on a number of criteria, including:

- * The ability to provide executions at the National Best Bid or Offer (NBBO)
- * The ability to provide price improvement opportunities
- * The ability to cross pre-opening orders or provide midpoint pricing
- * The extent to which different market centers or market makers trade or may be more suitable for different types of orders or particular securities
- * Adequate staffing; and the general responsiveness of the firm
- * Differences in execution quality for limit orders among various market makers or market centers
- * The willingness to adjust a price in the event of missed markets
- * The opportunity for liquidity enhancement
- * The speed of execution
- * The financial responsibility of the market maker
- * The speed of display of better-priced limit orders
- * The willingness to provide copies of exception reports with follow-up actions
- * The establishment of procedures to handle volatile market situations
- * The ability to provide real-time notice of the disabling of auto execution systems
- * The reliability of systems

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Q8. From where does Fidelity's Order Flow Management group get the order flow information and calculations?

A8. The order flow information and calculations are derived from National Financial Services LLC order entry and routing systems and internal execution and analysis systems. The resulting marketplace execution quality is calculated using only a specific firm's orders, executed by that marketplace. They are not intended to represent that destination's overall or SEC Rule 605 execution quality statistics.

Q9. What specific order types are covered in the Monthly Order Flow Review?

A9. The report covers execution statistics on market orders of 100 - 9,999 shares for National Market System (NMS) Securities.

Q10. Does the report exclude any types of orders?

A10. The report may exclude any order sent to a destination requiring manual handling, or for which there is a request for special handling for execution, including, but not limited to:

- * Orders to be executed at a market opening price or a market closing price
- * Orders submitted with stop prices
- * Orders to be executed only at their full size
- * Orders to be executed on a particular type of tick or bid
- * Orders submitted on a "not held" basis
- * Orders for other than regular settlement
- * Orders to be executed at prices unrelated to the market price of the security at the time of execution

Q11. What calculations are covered in the Monthly Order Flow Review?

A11. Calculations, and their definitions, include the following:

- * Average Speed - The average time between order receipt and order execution based on a weighted average of the entire order
- * Average Effective Spread - On a share-weighted average basis, twice the difference between the execution price and the midpoint of the consolidated best bid and offer at the time of order receipt
- * Average Quote Spread - The average difference between the National Best Bid and Offer (NBBO) at the time of order receipt
- * Effective/Quoted Spread - The Average Effective Spread divided by the Average Quoted Spread
- * Percentage of Shares Price Improved - Of total shares executed, the percentage of shares that were price improved
- * Average Price Improvement per Share - For shares executed with price improvement, the share-weighted average amount per share that prices were improved
- * Dollars Saved - The total dollar value of the price improvement received on executed orders

Price improvement calculations are based on "eligible" orders, where orders were received when the consolidated NBBO quoted spread was a minimum 1 cent spread. Eligible orders are orders in securities that have NBBO quotes.

Q12. What other steps does Fidelity take to assess and monitor execution quality and make stock-specific routing decisions?

A12. On at least an annual basis, the Order Flow Management Group conducts meeting with various market centers, including market centers to which NFS electronically transmits order flow. We may request written responses to an execution quality questionnaire.

The questionnaire includes, but is not limited to, inquiries into auto-execution size and price improvement parameters, procedures to ensure compliance with best execution requirements and SEC order-handling rules, and procedures to monitor for execution quality. The Order Flow Management Group considers the results of its write up of these market center meetings, and the written responses by the market centers to the questionnaire, as important factors for determining where to route customer order flow.

Q13. What additional resources does Fidelity provide to help with your overall flow evaluation?

A13. Other execution quality resources can be found on Streetscape® under Streetscape® >Resources >Product and Services >Leading Investment Solutions. In second paragraph choose link entitled : "Quality Execution Services". There, clients can access our monthly Execution Quality Report Cards and Rule 605 Comparison Reports, which let them view overall trade execution statistics for NFS. From this section of Streetscape, clients can also link to our public site, www.nationalfinancial.com, to review SEC Rules 605 and 606 information.

Q14. In addition to their relationship manager, whom else can clients call with questions about execution quality resources and support?

A14. Correspondent broker/dealers can contact the Order Flow Management Group via e-mail at orderflowmanagement@fmr.com with questions.

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