

# FIRSTRADE SECURITIES INC. - Held NMS Stocks and Options Order Routing Public Report

Generated on Tue Oct 26 2021 21:04:07 GMT-0400 (Eastern Daylight Time)

3rd Quarter, 2021

July 2021

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## S&P 500 Stocks

### Summary

| Non-Directed Orders as % of All Orders | Market Orders as % of Non-Directed Orders | Marketable Limit Orders as % of Non-Directed Orders | Non-Marketable Limit Orders as % of Non-Directed Orders | Other Orders as % of Non-Directed Orders |
|--|---|---|---|--|
| 100.00                                 | 29.78                                     | 6.73  | 48.81   | 14.67                                    |

### Venues

| Venue - Non-directed Order Flow | 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 for Market Orders(cents per hundred shares) | Net Payment Paid/Received for Marketable Limit Orders(USD) | Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Non-Marketable Limit Orders(USD) | Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/Received for Other Orders(cents per hundred shares) |
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CITADEL SECURITIES LLC          | 89.17                   | 99.89             | 99.70                       | 98.54                           | 31.45            | 12,878.24  | 15.0000   | 9,751.74   | 15.0000   | 11,482.57  | 15.0000   | 2,940.37  | 14.6595  |
| Apex Clearing Corporation       | 10.83                   | 0.11              | 0.30                        | 1.46                            | 68.55            | 116.79   | 7.5000  | 251.98   | 7.5000  | 487.83   | 14.4698   | -584.02   | -4.7319  |

### Material Aspects:

CITADEL SECURITIES LLC:

Citadel Execution Services:

Firstrade Securities Inc. receives payment from the third party venue Citadel Securities, LLC for directing order flow of listed equities to this venue. The disclosed amounts represent the total amount of payments received by Firstrade Securities Inc. Renumeration is paid on a per share basis. For additional detailed Routing Information, please refer to: Citadel Securities, LLC, <https://www.citadelsecurities.com/rule-605-606-statements/>

Apex Clearing Corporation:

Apex Clearing:

Firstrade Securities Inc. receives payment from the third party venue Apex Clearing Corporation for directing order flow of listed equities to this venue under a fully disclosed clearing agreement. The disclosed amounts represent the total amount of payments received by Firstrade Securities Inc. Renumeration is paid on a per share tiered basis. For additional detailed Routing Information, please refer to: Apex Clearing Corporation, <https://www.apexclearing.com/disclosures/sec-rule-606-and-607/>

July 2021

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## Non-S&P 500 Stocks

### Summary

| Non-Directed Orders as % of All Orders | Market Orders as % of Non-Directed Orders | Marketable Limit Orders as % of Non-Directed Orders | Non-Marketable Limit Orders as % of Non-Directed Orders | Other Orders as % of Non-Directed Orders |
|--|---|---|---|--|
| 100.00                                 | 27.65                                     | 8.44  | 48.38   | 15.53                                    |

## Venues

| Venue - Non-directed Order Flow | 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 for Market Orders(cents per hundred shares) | Net Payment Paid/Received for Marketable Limit Orders(USD) | Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Non-Marketable Limit Orders(USD) | Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/Received for Other Orders(cents per hundred shares) |
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CITADEL SECURITIES LLC          | 87.65                   | 99.72             | 99.04                       | 99.48                           | 23.12            | 90,354.36  | 11.9817   | 57,904.66  | 8.9986  | 81,433.79  | 11.5446   | 9,312.23  | 11.8399  |
| Apex Clearing Corporation       | 12.35                   | 0.28              | 0.96                        | 0.52                            | 76.88            | 1,307.25   | 7.5000  | 2,381.90   | 7.3624  | 2,162.45   | 13.9327   | 610.37  | 0.2817   |

## Material Aspects:

### CITADEL SECURITIES LLC:

Firstrade Securities Inc. receives payment from the third party venue Citadel Securities, LLC for directing order flow of listed equities to this venue. The disclosed amounts represent the total amount of payments received by Firstrade Securities Inc. Renumeration is paid on a per share basis. For additional detailed Routing Information, please refer to: Citadel Securities, LLC, <https://www.citadelsecurities.com/rule-605-606-statements/>

### Apex Clearing Corporation:

Firstrade Securities Inc. receives payment from the third party venue Apex Clearing Corporation for directing order flow of listed equities to this venue under a fully disclosed clearing agreement. The disclosed amounts represent the total amount of payments received by Firstrade Securities Inc. Renumeration is paid on a per share tiered basis. For additional detailed Routing Information, please refer to: Apex Clearing Corporation, <https://www.apexclearing.com/disclosures/sec-rule-606-and-607/>

## July 2021

## Options

### Summary

| Non-Directed Orders as % of All Orders | Market Orders as % of Non-Directed Orders | Marketable Limit Orders as % of Non-Directed Orders | Non-Marketable Limit Orders as % of Non-Directed Orders | Other Orders as % of Non-Directed Orders |
|--|---|---|---|--|
| 100.00                                 | 5.77                                      | 12.46   | 57.78   | 23.99                                    |

## Venues

| Venue - Non-directed Order Flow   | 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 for Market Orders(cents per hundred shares) | Net Payment Paid/Received for Marketable Limit Orders(USD) | Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Non-Marketable Limit Orders(USD) | Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/Received for Other Orders(cents per hundred shares) |
|-----------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CITADEL SECURITIES LLC            | 66.71                   | 64.80             | 61.27                       | 59.58                           | 87.16            | 40,146.00  | 39.5667   | 165,066.00   | 39.6557   | 140,888.00   | 39.3611   | 92,420.00                                       | 29.0960  |
| Wolverine Execution Services, LLC | 25.55                   | 30.97             | 32.27                       | 33.41                           | 1.82             | 24,125.20  | 57.4971   | 120,581.60   | 60.7611   | 115,719.60   | 62.2942   | 3,919.20  | 42.9078  |
| Volant Execution                  | 6.65                    | 4.18              | 5.13                        | 5.53                            | 10.75            | 6,985.20   | 40.0000   | 20,056.00  | 40.0000   | 22,563.60  | 40.0000   | 12,961.20                                       | 40.0000  |

| Venue - Non-directed Order Flow | 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 for Market Orders(cents per hundred shares) | Net Payment Paid/Received for Marketable Limit Orders(USD) | Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Non-Marketable Limit Orders(USD) | Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/Received for Other Orders(cents per hundred shares) |
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| Apex Clearing Corporation       | 1.09                    | 0.06              | 1.32                        | 1.48                            | 0.27             | 311.32   | 43.0000   | 3,079.52   | 19.5724   | 1,504.20   | 22.8671   | 105.50  | 17.8814  |

#### Material Aspects:

##### CITADEL SECURITIES LLC:

Firstrade Securities Inc. receives payment from the third party venue Citadel Securities, LLC for directing order flow of listed options to this venue. The disclosed amounts represent the total amount of payments received by Firstrade Securities Inc. Renumeration is paid on a per contract basis. For additional detailed Routing Information, please refer to: Citadel Securities, LLC, <https://www.citadelsecurities.com/rule-605-606-statements/>

##### Wolverine Execution Services, LLC:

Firstrade Securities Inc. receives payment from the third party venue Wolverine Execution Services, LLC for directing order flow of listed options to this venue. The disclosed amounts represent the total amount of payments received by Firstrade Securities Inc. Renumeration is paid on a per contract basis. For additional detailed Routing Information, please refer to: Wolverine Execution Services, LLC, <http://www.tradewex.com/Home/Rule606>

##### Volant Execution:

Firstrade Securities Inc. receives payment from the third party venue Volant Execution, LLC for directing order flow of listed options to this venue. The disclosed amounts represent the total amount of payments received by Firstrade Securities Inc. Renumeration is paid on a per contract basis. For additional detailed Routing Information, please refer to: Volant Execution, LLC, <https://volanttrading.com/index.php/execution-services/>

##### Apex Clearing Corporation:

Firstrade Securities Inc. receives payment from the third party venue Apex Clearing Corporation for directing order flow of listed options to this venue under a fully disclosed clearing agreement. The disclosed amounts represent the total amount of payments received by Firstrade Securities Inc. Renumeration is paid on a per contract basis. For additional detailed Routing Information, please refer to: Apex Clearing Corporation, <https://www.apexclearing.com/disclosures/sec-rule-606-and-607/>

## August 2021

### S&P 500 Stocks

#### Summary

| Non-Directed Orders as % of All Orders | Market Orders as % of Non-Directed Orders | Marketable Limit Orders as % of Non-Directed Orders | Non-Marketable Limit Orders as % of Non-Directed Orders | Other Orders as % of Non-Directed Orders |
|--|---|---|---|--|
| 100.00                                 | 28.65                                     | 6.54  | 50.18   | 14.63                                    |

#### Venues

| Venue - Non-directed Order Flow | 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 for Market Orders(cents per hundred shares) | Net Payment Paid/Received for Marketable Limit Orders(USD) | Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Non-Marketable Limit Orders(USD) | Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/Received for Other Orders(cents per hundred shares) |
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CITADEL SECURITIES LLC          | 89.66                   | 99.84             | 99.76                       | 98.52                           | 34.77            | 13,728.41  | 15.0000   | 12,625.68  | 15.0000   | 11,601.32  | 14.9993   | 3,944.02  | 14.8237  |
| Apex Clearing Corporation       | 10.34                   | 0.16              | 0.24                        | 1.48                            | 65.23            | 125.78   | 7.5000  | 76.93  | 7.5000  | 141.36   | 14.4815   | 604.81  | 6.6266   |

#### Material Aspects:

##### CITADEL SECURITIES LLC:

##### Citadel Execution Services:

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## August 2021

### Non-S&P 500 Stocks

#### Summary

| Non-Directed Orders as % of All Orders | Market Orders as % of Non-Directed Orders | Marketable Limit Orders as % of Non-Directed Orders | Non-Marketable Limit Orders as % of Non-Directed Orders | Other Orders as % of Non-Directed Orders |
|--|---|---|---|--|
| 100.00                                 | 26.32                                     | 8.39  | 49.44   | 15.85                                    |

#### Venues

| Venue - Non-directed Order Flow | 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 for Market Orders(cents per hundred shares) | Net Payment Paid/Received for Marketable Limit Orders(USD) | Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Non-Marketable Limit Orders(USD) | Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/Received for Other Orders(cents per hundred shares) |
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CITADEL SECURITIES LLC          | 87.61                   | 99.73             | 99.28                       | 99.51                           | 24.16            | 87,262.61  | 12.7597   | 48,053.11  | 8.7796  | 71,475.89  | 11.4422   | 7,448.70  | 12.9990  |
| Apex Clearing Corporation       | 12.39                   | 0.27              | 0.72                        | 0.49                            | 75.84            | 1,723.96   | 7.5000  | 1,114.19   | 7.2877  | 1,403.18   | 14.4338   | 2,871.70  | 1.7236   |

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## August 2021

### Options

#### Summary

| Non-Directed Orders as % of All Orders | Market Orders as % of Non-Directed Orders | Marketable Limit Orders as % of Non-Directed Orders | Non-Marketable Limit Orders as % of Non-Directed Orders | Other Orders as % of Non-Directed Orders |
|--|---|---|---|--|
| 100.00                                 | 5.32                                      | 11.86   | 58.53   | 24.29                                    |

## Venues

| Venue - Non-directed Order Flow   | 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 for Market Orders(cents per hundred shares) | Net Payment Paid/Received for Marketable Limit Orders(USD) | Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Non-Marketable Limit Orders(USD) | Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/Received for Other Orders(cents per hundred shares) |
|-----------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CITADEL SECURITIES LLC            | 66.40                   | 59.72             | 58.84                       | 59.09                           | 89.19            | 41,243.00  | 39.6800   | 192,359.00   | 39.6036   | 151,331.00   | 39.5050   | 85,948.00                                       | 27.1218  |
| Wolverine Execution Services, LLC | 26.48                   | 35.48             | 34.91                       | 34.33                           | 1.48             | 27,774.80  | 58.2049   | 125,879.60   | 60.4470   | 121,458.40   | 62.4937   | 3,795.60  | 43.1171  |
| Volant Execution                  | 6.15                    | 4.77              | 5.16                        | 5.22                            | 9.17             | 2,786.00   | 40.0000   | 10,638.80  | 40.0000   | 11,911.20  | 40.0000   | 12,345.20                                       | 40.0000  |
| Apex Clearing Corporation         | 0.97                    | 0.04              | 1.10                        | 1.36                            | 0.15             | 11.96  | 13.0000   | 1,292.82   | 13.5616   | 1,074.70   | 19.4199   | 62.18   | 18.0756  |

## Material Aspects:

### CITADEL SECURITIES LLC:

Firstrade Securities Inc. receives payment from the third party venue Citadel Securities, LLC for directing order flow of listed options to this venue. The disclosed amounts represent the total amount of payments received by Firstrade Securities Inc. Renumeration is paid on a per contract basis. For additional detailed Routing Information, please refer to: Citadel Securities, LLC, <https://www.citadelsecurities.com/rule-605-606-statements/>

### Wolverine Execution Services, LLC:

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## September 2021

## S&P 500 Stocks

### Summary

| Non-Directed Orders as % of All Orders | Market Orders as % of Non-Directed Orders | Marketable Limit Orders as % of Non-Directed Orders | Non-Marketable Limit Orders as % of Non-Directed Orders | Other Orders as % of Non-Directed Orders |
|--|---|---|---|--|
| 100.00                                 | 28.58                                     | 6.06  | 51.30   | 14.06                                    |

## Venues

| Venue - Non-directed Order Flow | 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 for Market Orders(cents per hundred shares) | Net Payment Paid/Received for Marketable Limit Orders(USD) | Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Non-Marketable Limit Orders(USD) | Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/Received for Other Orders(cents per hundred shares) |
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CITADEL SECURITIES LLC          | 89.17                   | 99.88             | 99.72                       | 98.57                           | 28.52            | 12,460.78  | 15.0000   | 8,372.65   | 15.0000   | 10,299.82  | 15.0000   | 3,333.93  | 14.7777  |

| Venue - Non-directed Order Flow | 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 for Market Orders(cents per hundred shares) | Net Payment Paid/Received for Marketable Limit Orders(USD) | Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Non-Marketable Limit Orders(USD) | Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/Received for Other Orders(cents per hundred shares) |
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| Apex Clearing Corporation       | 10.83                   | 0.12              | 0.28                        | 1.43                            | 71.48            | 73.03  | 7.5000  | 97.65  | 7.5000  | 252.10   | 14.4960   | 1,044.37  | 9.3916   |

**Material Aspects:**

CITADEL SECURITIES LLC:

Citadel Execution Services:

Firstrade Securities Inc. receives payment from the third party venue Citadel Securities, LLC for directing order flow of listed equities to this venue. The disclosed amounts represent the total amount of payments received by Firstrade Securities Inc. Renumeration is paid on a per share basis. For additional detailed Routing Information, please refer to: Citadel Securities, LLC, <https://www.citadelsecurities.com/rule-605-606-statements/>

Apex Clearing Corporation:

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## September 2021

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### Non-S&P 500 Stocks

**Summary**

| Non-Directed Orders as % of All Orders | Market Orders as % of Non-Directed Orders | Marketable Limit Orders as % of Non-Directed Orders | Non-Marketable Limit Orders as % of Non-Directed Orders | Other Orders as % of Non-Directed Orders |
|--|---|---|---|--|
| 100.00                                 | 27.14                                     | 8.51  | 49.22   | 15.13                                    |

**Venues**

| Venue - Non-directed Order Flow | 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 for Market Orders(cents per hundred shares) | Net Payment Paid/Received for Marketable Limit Orders(USD) | Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Non-Marketable Limit Orders(USD) | Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/Received for Other Orders(cents per hundred shares) |
|---------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CITADEL SECURITIES LLC          | 87.89                   | 99.74             | 99.28                       | 99.51                           | 22.38            | 90,609.77  | 12.6309   | 56,186.20  | 8.8128  | 74,852.24  | 10.6080   | 7,900.42  | 12.2146  |
| Apex Clearing Corporation       | 12.11                   | 0.26              | 0.72                        | 0.49                            | 77.62            | 1,973.70   | 7.5000  | 1,358.39   | 7.4652  | 1,758.71   | 14.3548   | 3,635.94  | 1.8954   |

**Material Aspects:**

CITADEL SECURITIES LLC:

Firstrade Securities Inc. receives payment from the third party venue Citadel Securities, LLC for directing order flow of listed equities to this venue. The disclosed amounts represent the total amount of payments received by Firstrade Securities Inc. Renumeration is paid on a per share basis. For additional detailed Routing Information, please refer to: Citadel Securities, LLC, <https://www.citadelsecurities.com/rule-605-606-statements/>

Apex Clearing Corporation:

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## September 2021

### Options

#### Summary

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|--|---|---|---|--|
| 100.00                                 | 5.45                                      | 12.19   | 58.40   | 23.96                                    |

#### Venues

| Venue - Non-directed Order Flow   | 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 for Market Orders(cents per hundred shares) | Net Payment Paid/Received for Marketable Limit Orders(USD) | Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Non-Marketable Limit Orders(USD) | Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares) | Net Payment Paid/Received for Other Orders(USD) | Net Payment Paid/Received for Other Orders(cents per hundred shares) |
|-----------------------------------|-------------------------|-------------------|-----------------------------|---------------------------------|------------------|--|---|--|---|--|---|---|--|
| CITADEL SECURITIES LLC            | 67.57                   | 58.02             | 59.86                       | 60.36                           | 91.23            | 36,886.00  | 39.5467   | 190,830.00   | 38.6644   | 164,571.00   | 38.6612   | 70,818.00                                       | 23.9054  |
| Wolverine Execution Services, LLC | 25.88                   | 36.76             | 33.83                       | 33.21                           | 1.48             | 30,966.80  | 56.2532   | 136,147.60   | 64.7733   | 119,127.60   | 64.0013   | 2,782.40  | 44.4260  |
| Volant Execution                  | 5.63                    | 5.17              | 5.07                        | 5.13                            | 7.23             | 2,235.60   | 40.0000   | 8,306.40   | 40.0000   | 10,740.80  | 40.0000   | 8,598.80  | 40.0000  |
| Apex Clearing Corporation         | 0.93                    | 0.04              | 1.23                        | 1.30                            | 0.07             | 21.97  | 17.2992   | 1,262.07   | 12.5504   | 972.95   | 18.6496   | 9.52  | 15.8750  |

#### Material Aspects:

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Firstrade Securities Inc. receives payment from the third party venue Volant Execution, LLC for directing order flow of listed options to this venue. The disclosed amounts represent the total amount of payments received by Firstrade Securities Inc. Renumeration is paid on a per contract basis. For additional detailed Routing Information, please refer to: Volant Execution, LLC, <https://volantrading.com/index.php/execution-services/>

##### Apex Clearing Corporation:

Firstrade Securities Inc. receives payment from the third party venue Apex Clearing Corporation for directing order flow of listed options to this venue under a fully disclosed clearing agreement. The disclosed amounts represent the total amount of payments received by Firstrade Securities Inc. Renumeration is paid on a per contract basis. For additional detailed Routing Information, please refer to: Apex Clearing Corporation, <https://www.apexclearing.com/disclosures/sec-rule-606-and-607/>